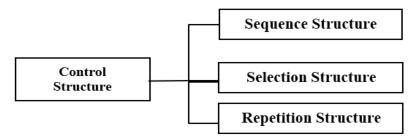
CHAPTER 11 DECISION CONSTRUCTS LECTURE NO. 1 PREVIEW OF TODAY'S TOPICS Control Structure & Types of Control Structure, IF Statement CONTROL STRUCTURE AND TYPES OF CONTROL STRUCTORE, IF STATEMENT LONG QUESTIONS 1. What is Control Structure? Briefly describe the basic control structures for writing (LFR 2021)(BWP 2019, 2022) (FSD 2021) programs. Explain nested if statement with its purpose, syntax, flow chart and suitable program example. 2. (GRW 2021) (DGK 2021) SHORT OUESTIONS What is control structure? (DGK 2022) (FSD 2022) (SWL 2019)(K.B) What is sequence structure? (**K.B**) (LHR 2022) (RWP 2019)(K.B)

- 3. What is compound statement?4. What is selection statement?
- 5. What is if statement?

CONTROL STRUCTURE

"A Control structure is a statement **used to control the flow of execution in a program** or function."

Control structure is used to combine individual instructions in to a single logical unit. This unit has one entry point and one exit point. Program logic is implemented with the help of control structures. Three kind of control structure are used to control the flow of execution of instruction.



• Sequence Structure

- (i) In sequence structure the instruction of program executed one after the other in the order in which they are written.
- (ii) It is also called the **default flow of the program**.
- (iii) The program starts execution from the first instruction and a'l instruction executed one by one in a sequence.

• Selection Structure

- (i) In selection structure the instructions of the program are divided into two or more groups and selected group of instruction execute.
- (ii) This selection is cone after evaluation of a certain condition.
- Repetition Structure

ίN

(ii)

- Repetition structure is also called iteration structure or loop structure.
- It is used to execute a statement or set of statement repeatedly as long as the given condition remains true.
- (iii) This control structure is used to repeat same or similar work.

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DECISION CONSTRUCTS

IF STATEMENT

- If is a keyword in C language. It is used to execute or ignore a statement or a set of statements by checking the condition.
- A condition is an expression that either evaluates to true (usually represented by i) on false (represented by 0).

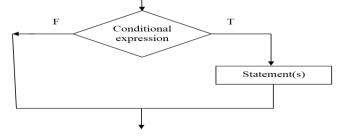
The syntax of if statement is if (condition)

statement₁; statement₂; statement₃;

Stuement;

If the condition is true then the statement(s) in the block of if statement are executed otherwise these are skipped and the control is transferred to next statement of the program. If there are more statements in if block then these should be enclosed in braces. However in case of a single statement the braces are optional.

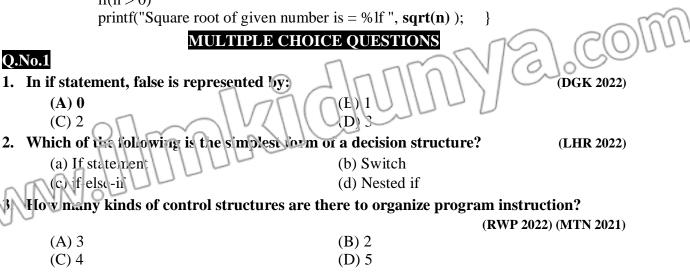
The flow chart of if statement is as follows:



Example #1

Write a program that print the square root of a positive number input by the user.
#include<stdio.h>
#include<math.h>
void main()
{ double n;
 printf("Please enter a number : ");
 scanf("%lf", &n);

if(n > 0)



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CHAPTER 11 DECISION CONSTRUCTS Which of the following statement is the simplest form of decision structure? (LHR 2022) 4. (a) Switch (b) if statement (c) While loop (d) Nested if 5. The instructions are executed in the same order in which they are specified in the (DGK 2021) program. (a) Sequence structure (b) Selection structure (d) If statement (c) Loop SHORT OUESTIONS Q.No.2 What is control structure? 1. (DGK 2022) (FSD 2022) (SWL 2019) (K.B) Cort of structures are statements used to control the flow of execution in a program or Ans: inclica. There are three types of control structures to control flow execution. These are: 1. Sequence 2. Selection 3. Repetition. What is sequence structure? 2. (K.B) Ans: In sequence structure the instruction are executed in the same order in which they are specified in the program. The default flow of program is sequential. 3. What is compound statement? (LHR 2022) (RWP 2019) (K.B) A compound statement refers to a group of statements enclosed in opening and closing Ans: braces such as { statement₁; statement₂; statement₃; statement_n; } Control flows from statement₁ to statement_n in a logical sequence. 4. What is selection statement? (**K.B**) Ans: A selection structure chooses which statement or a block of statements is to execute. There are two type selection statements in C. These are if-else • switch 5. What is if statement?

Ans:

If is a keyword in C language. It is used to execute or ghore a statement or a set of statements by checking the condition. A condition is an expression that either evaluates to true (usually represented by 1) or ia se (represented by C). The syntax of if statement is

if(cond tion)

staten er t1: statement₂;

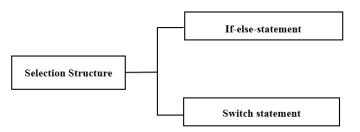
statement₃;

statement_n; }

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CHAPTER 11	DECISION CONSTRUCTS
LECTURE NO. 2	
PR	EVIEW OF TODAY'S TOPICS
Selection Structure	(IF-ELSE Statement) & Nested if Statement
SELECTIO	N STRUCTURE (IF-ELSE STATEMENT)
	LONGQUISTION
1. Define and explain if-else st	(SWL 2021)
	SHOAT QUESTIONS JU U
1. What is if-else statement? (Why if – else statement is used?) (SWL 2019)(U.B)
2. Write syntax if-else state no	(GRW 2022) (LHR 2018)(U.B)
3. Convert the following conditi	onal expression into if-else statement.
x < 0? = 10; z = 20;	(GRW 2019) (SGD 2019, 2021) (U.B)
4. Write a program that inpu	t a number from the user and print whether the given
💛 🎽 number is even or odd.	(A.B)
SELECTION STRUCTURE	
In selection structure, the	instructions of the program are divided into two or more groups
and selected group of ir	struction execute. This selection is done after evaluation of a

certain condition.

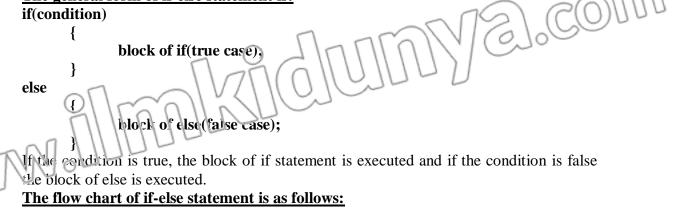


IF- ELSE

If is a keyword in c language. If statement is used to make a decision whether a particular task will be performed or not. If we want to make a two-way decision, if-else statement is used. After evaluation of condition, one from two code blocks will be executed and the other will be skipped. We cannot execute or skip both code blocks.

If-else statement

If-else statement is another type of if statement. It is two-way decision making statement. **The general form of if-else statement is:**

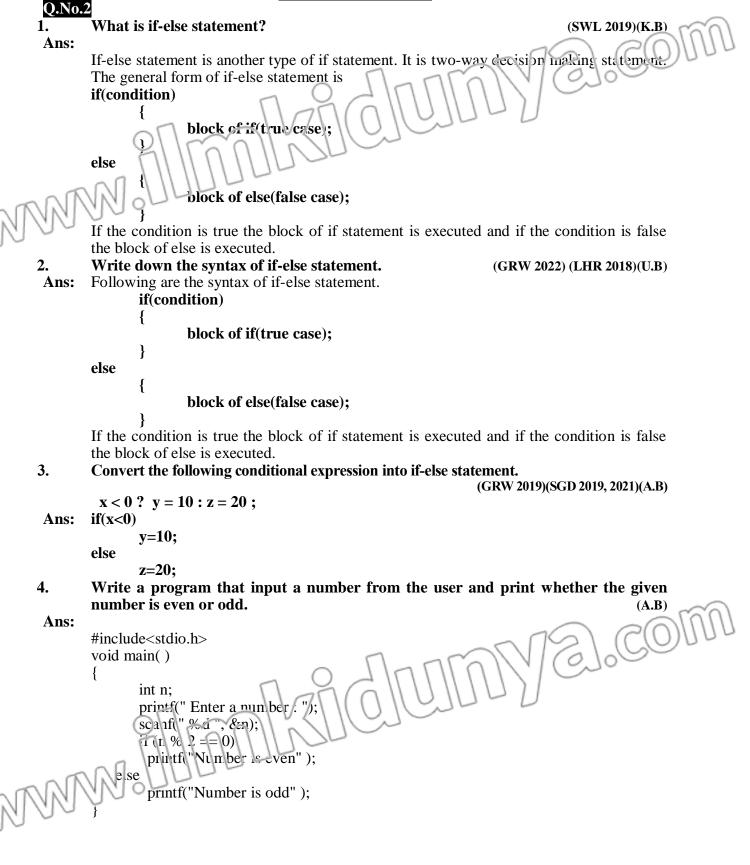




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DECISION CONSTRUCTS

SHORT QUESTIONS



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DECISION CONSTRUCTS

(GRW 2017)(K.B)

(U.B)

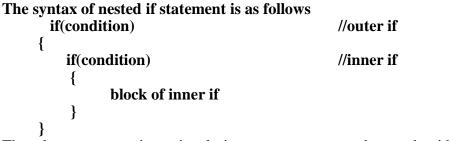
NESTED IF STATEMENT LONG QUESTIONS

- Explain nested if statement with its purpose, syntax, flow chart and suitable program example. (GF.V 2921) (SWE 2).9)
 Write a program that inputs three numbers and find the smallest number using nested if. (GRW 2022)(DGK 2022)
- 3. Write a program in C language that accept three from user and display the largest number using nested if (SWL 2022) (MTN 2022) SHOR FOURS
- 1. What is nested if staten ert?
- 2. Write syntax restod if statement.

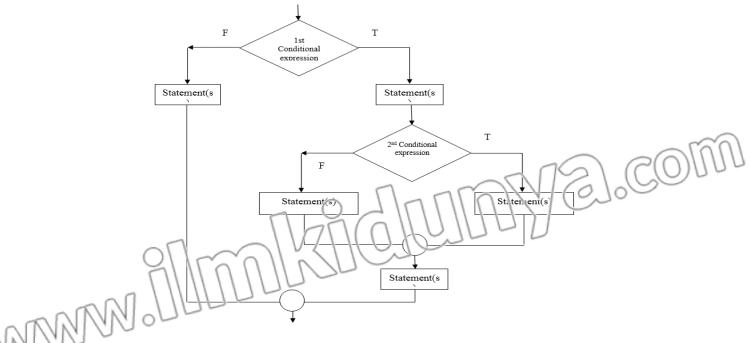
VESTED IT STATEMENT:

"Is atement inside the body of another if statement is called nested if statement."

Nested can be done up to any level. However, the increase in the level of nesting also increase the complexity of the nested if statement.



The else statement is optional, it may or may not be used with outer of inner if statements. The flow chart of nested-if statement is as follows:



Example#1

Write a program that input three numbers form the user and displays the largest number. #include<stdio.h>

REVISION LECTURE NOTES – 2nd YEAR (PUNJAB BOARD)

#include<conio.h>

G]°COU void main() { int a, b, c; clrscr(); printf("Please enter three numbers "); scanf("%? %u %d ", &a, &b, &c) f(a > b)if 2× () printf("First number is largest "); else printf("Third number is largest "); } else { if (b > c)printf("Second number is largest "); else printf("Third number is largest "); } getch(); } MULTIPLE CHOICE QUESTIONS 1. Which statement means an if statement inside another if statement? (a) Nested if (b) Nested loop (c) Outer if (d) Sentinel loop 2. Increase in the level of nesting is also increase in (a) Simplicity of the program (b) Complexity of the program (c) Understandability of the program (d) Reusability SHORT QUESTIONS 1. What is nested-if statement? (LHR 2017) (KB) If statement inside the body of another if statement is called nested if statement. Ans: can be done up to any level. However the increase in the level of nesting also increase the complexity of the nested in statement. The syntax of nested if statement is as follows (condition) //outer if if (cenaition) //inner if ł block of inner if ļ

LECTURE NOTES – 2nd YEAR (PUNJAB BOARD) REVISION

}

The else statement is optional, it may or may not be used with outer of inner if statements.

- 2. Write down the syntax of nested if statement.
- **Ans:** The syntax of nested if statement is as follows

if(condition) { if(condition) { if(condition) //imer if }



CHAPTER 11 DECISION CONSTRUCTS LECTURE NO. 3 PREVIEW OF TODAY'S TOPICS Ŧ If-else-if statement & Use of logical operators IF-ELSE-IF STATEMENT & USE OF LOGICAL OPPRATOR LONG QUESTIONS Define "if-else-if "statement. Explain its working with syntax, Flowchart and 1. example. (HR 2021) (MTN 2021) Write a program that inputs three numbers and displays the maximum number by 2. using if else if statement. (LHR 2022) SHORT OUESTIONS What is if-olse if statement? (K.B) What are logical operators? (SWL 2021) (MTN 2021) (DGK 2021) (K.B) Write down the syntax of if-else-if statement. (U.B) **IF-ELSE IF STATEMENT:**

If there are more than three alternatives, then nested if statements can becomes quite complex. In such statements if statement with multiple alternatives if-else if can be a good choice.

The syntax of if-else if statement is as follows. if(condition₁) statement₁; else if (condition₂) statement₂; .

```
• else if (condition<sub>n</sub>)
```

statement_n;

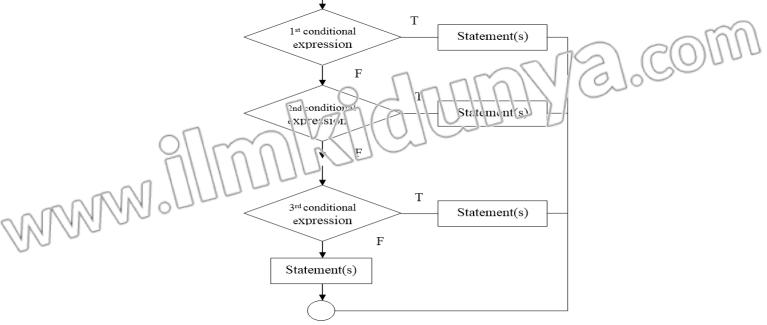
else

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statement_k;

The condition in if statement with multiple alternatives are executed in sequence until a true condition is reached, then the statements following is executed and rest of alternatives conditions are skipped. If all conditions are false then statements following the last else is executed. The flow chart of f-else if statement is as follows.

DECISION CONSTRUCTS



Example #1

Write a program that determines the given number is positive, negative or zero by using if-else if statement.

#include<stdio.h>
void main()

{

int n; printf("Please enter a number : "); scanf("%d ", &n);

if(n > 0)
 printf("The number is positive ");
else if(n < 0)
 printf("The number is negative ");
else
 printf("The number is zero ");</pre>

USE OF LOGICAL OPERATOR

There are three logical operator ANU (&&), OR (II), and NOT(!). These operators use to construct compound conditions to may be used with if statements.

```
Example #1
```

}

Write Oprogram that input three numbers form the user and displays the largest number. #include<stdio.h> void main()

{

int a,b,c;

REVISION LECTURE NOTES – 2nd YEAR (PUNJAB BOARD)

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r	СНАБ	PTER 11	DECISION CON	ISTRUCTS
		printf("Please enter three numbers "		
		scanf("%d %d %d ", &a, &b, &c);	/ '	~
		if (a>b && a>c)		
		printf("First number is the largest"	Show i	CONDE
		else if (b>a && b>c)	InniniV/C	<u> </u>
		printf("Second number is the larger else	st"); U U U	
		printf("Third number is the largest		
	- 0	Weich logical operator is used in C langu	OICE QUESTIONS	(RWP 2022)
ant	NN	(a) 7	(b) +	(KWI 2022)
MM /	90	(c) &&	(d) *	
	2.	What does a compound condition use to j OR	join two conditions?	(SGD 2019)
		Which of the following operators is used	to make a compound condition?	•
		(a) Relational Operators	(b) Relational Result	
,	3.	(c) Logical Result Which of the following is not logical oper	(d) Logical operators	(CDW 2010)
•	5.	Which of the following is not logical oper (a) &&	(b) []	(GRW 2018)
		(c) !	(d) > =	
4	4.	An expression containing logical operato		g depending
		upond weather the expression true or fals (a) 0	se? (b) 1	
		(c) 2	(d) Both (a) & (b)	
		SHORT QUE	ESTIONS	
	1.	What is if-else if statement?	the marked if statements and h	(K.B)
1	Ans:	If there are more than three alternatives complex. In such statements if statement		1
		good choice.	r	
		The syntax of if-else if statement is as foll	lows.	
		if(condition ₁) statement ₁ ;		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		else if (condition ₂)	26	COMMU
		statement ₂ ;	1 martilla	LGODE
		SILLENIN		
		else if (condition))		
	NR	tatement _n ;		
NA	IN)	statement _k ;		
00,		Statement,		

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DECISION CONSTRUCTS

2. What are logical operators? (SWL 2021) (MTN 2021) (DGK 2021) (K.B) The three logical operators (AND, OR, and NOT Represented by &&,ll, and ! Ans: respectively. These operators play an important role in construction certain compoundconditions to be used with if statement. 01.51 3. Write down the syntax of if-else-if statement. The syntax of if-else if statement is as follows. Ans: if(condition₁) statement; else if (condition₂) staremen12; else if (condition_n) statement_n; else statement_k;

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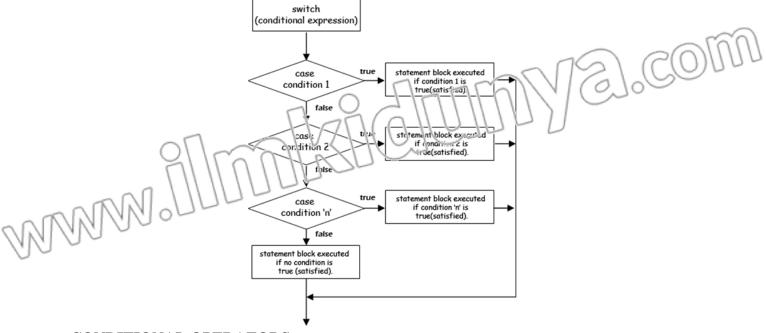
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CHA	PTER 11 DECISION CONSTRUCT	ГS
	LECTURE NO. 4	
	PREVIEW OF TODAY'S TOPICS	~
CP-		
	SWITCH STATEMENT, CONDITIONAL OPERATORS	90
	LONG QUESTIONS	
1.	Write a program that inputs a weekday number and prints the name of day on	
	screen using switch structure. (MTN 2021) (GRW 202	18)
2.	Write a program that inputs a character and display whether it is vowel or not	10)
	using switch statement. (FSD 2022)(RWP 2022) (SGD 202	18)
5 TK	What is meant by conditional operator? (RWP 2022) (LHR 2021) (U.	B)
NNL	Write a program that input two numbers from the user and display the larger	. D)
00		.B)
3.	Write the syntax of "Switch" statement. (BWP 2022)(U.	
4.	Why break statement is used in a Switch () structure. (LHR 2021) (BWP 2019)(U.	,
5.	What is the purpose of default statement n switch structure?(GRW 2019) (SGD 2018)(· ·
SWIT	TCH STATEMENT:	
	Switch statement is a condition statement that compares the value of an expression	on
	against a list of cases. The case label and the value of expression must be integer or	
	character. It must not be a float or double value.	
	The syntax of switch statement is:	
	switch(expression)	
	switch(expression)	
	case val ₁ :	
	statement ₁ ;	
	break;	
	case val ₂ :	
	statement ₂ ;	
	break;	
	bicuny	
	case val _n :	- 50
	statement _n ;	O
	break;	90
	default:	
	statement;	
FLOV	W CHART OF SWITCH STATEMENT	
n	NNOUL	
IMK	UU U	
00		

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DECISION CONSTRUCTS



CONDITIONAL OPERATORS:

Conditional operator is a ternary operator. It requires three operands. It is also used as an alternative of if-else statement.

Its general form is

"Conditional expression? True-case statement: false-case statement;

The condition is a relational or logical statement. If the condition is true then the truecase statement will be executed otherwise the false-case statement is executed.

Example#1

Write a program that input two numbers from the user and display the larger number by using conditional operator.

```
#include<stdio.h>
```

void main()

{

}

int n1, n2;printf("Please enter first number : "); scanf("%d", &n1);

printf("Please enter second number .

```
scanf("%d ", &n2);
n)>n2 ? printf("%d is larger ',n1):printf("%d is larger ",n2);
```

MULTIPLE CHOICE OUESTIONS

Which of the given is valid case statement in a switch?

(a) Case I

(c) Case'ab'

(b) Case xcy:

(SWL 2022)

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- (d) Case2+5:

REVISION LECTURE NOTES – 2nd YEAR (PUNJAB BOARD)

	CHAP	TER 11	DECISION CONSTRUCTS
	2.	The case block ends with: (MTN	N 2022) (LHR 2021) (BWP 2019) (SWL 2019)(SGD 2018)
		(a) End Select	(b) End Case
		(c) Case Else	(d) Break
	3.	Another term for conditional operator	is:(FSD 2022) (BWP 2021, 2022) GRW 2019)(GIV 2017)
		(a) Binary	(b) Termany
		(c) Byte	(d) Iteration
	4.	Conditional operator is an alternative	of. (GR V 2022)(TSD 2021, 2022)(SGD 2019)(LHR 2018)
		(a) if	(b) if-else
		(c) switch	(d) for
	5 00	Conditional Operator takes:	(GRW 2017)
n	1NV	(i) Sne Operand	(b) Two Operand
/NVI/	90	(c) Three Operand	(d) Four Operand
0.0	6.	The value of expression of switch state	ement is compare to each which label?
		(a) Case	(b) Break
		(c) Default	(d) All of above
			DUESTIONS
	1.	What is meant by conditional operato	
	Ans:		or. It requires three operands. It is also used as an
		alternative of if-else statement. Its gener Conditional expression? True-case sta	
		-	statement. If the condition is true then the true-
		case statement will be executed otherwise	
	2.		pers from the user and display the larger
		number by using conditional operator	(A.B)
	Ans:	#include <stdio.h></stdio.h>	
		void main()	
		l	
		int n1, n2;	
		printf("please enter first number	");
		scanf("%d ", &n1);	
		<pre>printf("please enter second numb scanf("%d ", &n2);</pre>	per);
		n1>n2 ? printf("%d is larger")n1):ptin f("%c is larger", h2):
	3.	Write the syntax of "Switch" stateme	at. (BWP 2022)(U.B)
	Ans:	Following are the syntax of switch state	ment.
		The syntax of switch state nent is:	
-	nR	switch(expression,	
AM	11/1	case val ₁ :	
AA .	0 -	statement ₁ ;	
-		break;	
		case val ₂ :	
	REVIS	SION LECTURE NOTES – 2 nd YEAR	(PUNJAB BOARD) 215

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ANTRY

statement₂; break; case val_n: statement_n break; default: statement;

Why break statement is used in a Switch () structure. (LHR 2021) (BWP 2019)(U.B) In switch structure the value of expression is compared to each case label. The statements following the first label with a matching evaluated value are executed until a break statement is encountered. The break causes the rest of the switch statement to be skipped.

5. What is the purpose of default statement n switch structure?(GRW 2019) (SGD 2018)(U.B)

Ans: In switch structure the default label may be used to provide code to be executed if none of the case label is matched. However, the position of default is not fixed. It may be placed before the first case statement of after the last case.

REVISION LECTURE NOTES – 2nd YEAR (PUNJAB BOARD)

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DECISION CONSTRUCTS

		STUDENTS LEARNING	OBJECTIVES (SLOs)
			DICE QUESTIONS
	Know	ledge Based Questions	
	(i)	Which Structure are statements that cont	rol the flow of execution in a program?
	(a) Se	quence Dog	(b) Loop
	(c) Se	lection	(d) Control Structures
	(ii)	Which of the following control structure i	
		quence	(b) Selection
		petition	(d) None
	(a) got	Which of the following is a conditional sta	(b) Switch
NNN	(c) gr		(d) None of these
00	(iv)	The value of expression in switch stateme	
	~ /	- float	(b) integer – character
	(c) flo	at – Double	(d) None of these
	(v)	How many basic selection statements in C	Clanguage?
	. ,	(b) 3	
	(c) 4		
		rstanding Based Questions	
	(i)	In which statement, instructions are enclo	
	. ,	mments	(b) For Loop (d) Compound
	(c) Str (ii)	Which of the following operator is used to	(d) Compound construct compound condition?
		ithmetic operator	(b) Relational operator
	. ,	gical operator	(d) Binary operator
	(iii)	•	
	(a) 0		,
	(c) 2	(d) None of these	
	(iv)	1 1	
	(a) Op		(b) Break
	(c) Va (x)		(d) All of above
	(v)	symbol is executed?	is true then the statement after the which
	(a) :	(b)?	
	(c);	(d) @	~ 121 (CUU)
		cation Based Questions	
	(i)	Which is an expression that either evaluation	
	(a) Bu		(b) Escape sequence
		ndition	(d) ASCII code
	(ii)	Which of the following are valid case in su	
	(a) cas		(b) case $x < 4$:
0	(c) 273 (i 'i)	The diamond symbol indicates:	(d) case 1.5
NMA	(i.) Pro		(b) Input
UU	(c) Ou		(d) Condition
	(iv)	The last statement is use to move case blo	
	· /		~

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CHA	PTER 11	DECISION CONSTRUCTS
	(a) Default	(b) if-else
	(c) Break	(d) else
(v)	What will be the output of: (6	5>7)? printf("ABC"): printf("XYZ");
	(a) ABC	$(b) XYZ \qquad \qquad \bigcirc $
	(c) ABSXYZ	(d) XYZABC
(vi)	A type of operator that works	s with one operand is called:
	(a) Binary operator	(b) Unary operator
	(c) Ternary operator	(d) Relational operator
	ollector	HORIQUESTIONS
Vnor	vledge Based Questions	

Q1. What is control structure?

Control structures are statements used to control the flow of execution in a program or function. There are three types of control structures to control flow execution. These are

- i. Sequence
- ii. Selection

Ans:

iii. Repetition.

Q2. What is compound statement?

Ans: A compound statement refers to a group of statements enclosed in opening and closing braces such as

{

statement1;
statement2;
statement3;

Statement;

}

Where the control flows from statement₁ to statement in a logical sequence.

Q3. What is selection statement?

- **Ans:** A selection structure chooses which statement or a block of statements is to execute. There are two type selection statements in C. These are
 - i. if-else
 - ii. switch

Q4. What is if statement?

Ans: If is a keyword in C language. It is used to execute or ignore a statement or a set of statements by checking the condition. A condition is an expression that either evaluates to true (usually represented by 1) or take (represented by 3).

The syntax of if statement is If (condition)

state rent₁

stnement2;

statement₃;

Statement;

} Q5. What is if-else statement?

If-else statement is another type of if statement. It is two way decision making statement. The general form of if-else statement is

if (condition)

ł

}) else

Block of else (false case);

Block of if (true case);

If the condition is true the block of if statement is executed and if the condition is false the block of else is executed.

Understanding Based Questions

Q1. Explain the comparison of nested if and sequence of ifs statements.

Ans: Comparison of nested-if and sequence of ifs statements:

The sequence of if statements is simpler then nested if statement. That is why the beginner usually prefer to use a sequence of if statements. However sometimes it is useful to use a nested if instead of sequence of ifs. In nested if statement when the control flow reaches a logical decision the rest of the conditions are skipped whereas in a sequences of if statements all conditions are tested in any case.

Q2. Why break statement is used in a Switch () structure.

- **Ans:** In switch structure the value of expression is compared to each case label. The statements following the first label with a matching evaluated value are executed until a break statement is encountered. The break causes the rest of the switch statement to be skipped.
- Q3. Why "default" case is used in switch statement?
- Ans: A default label may be used to provide code to be executed if none of the case label is matched.

Q4. Write down the syntax of conditional operator?

Ans: Conditional expression? True-case statement: false-case statement;

- a) x = y
- b) x< x
- c) $x \ge y x$
- $\mathbf{d}) \qquad \mathbf{x} == \mathbf{y} + \mathbf{x} \mathbf{y}$
- [Hint The value of a true condition is 1 and a false condition is 0]

Ans: Result of above conditions is

b) 0 () 1

a)

plication Based Questions

- Write an expression to test each of the following relationships
- a) age is from 18 to 25
- b) temperature is less than 40.0 and greater than 25.0

REVISION LECTURE NOTES – 2nd YEAR (PUNJAB BOARD)

Q5. Assuming x is 10.0 and y is 15.0 what are the values of the following conditions:

0

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- c) year is divisible be 4 [Hint use %]
- d) speed is not greater than 80
- e) y is greater than x and less than z
- f) w is either equal to 6 or not greater than 3.
- Note: The bold face words represent variables' names

```
Ans: Expression of above statements.
```

- a) age >= 18 && age <= 25
 - b) temperature < 40.0 % & temperature > 2.5
 - c) y er % 4 == 0
 - d) (speec > 80)
 - e) y > x & & y < z
 - f) $v' = 6 \ln ! (v > 3)$

What will be output of the following.

```
int x=5, y=10;
```

- if(x>y)
- y=2;
- y=y+1;

```
printf("value of y=%d", y);
```

- Ans: output:
 - value of y=11

Q.3 Trace output of the following program.

```
int a=4, b=2, c=5;
if (a > b)
  a=5;
if( c= = a)
  a = 6;
else
  a = 7;
printf("%d", a);
```

Ans: 6

Q.4 Find the errors in the given code.

```
void main()
```

```
{
    int a=2;
    if ( a=1 )
        printf("OK");
```

else

```
prinf("cancel");
getch();
```

, cicility,

```
}
Ans: Error: Declaration syntax error
```

a is assigned a value that is never used Q.5 Trace the error.

```
Jut x=3
Int y=4
```

If (x<y)

x++;

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