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F.Y.B Tech	Headenic	Yeur	2021	J.Y

Subject: Programming and Problem Solving Trimester: 1

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Division: 1 Batch: A3

Assignment -3

in C to implement basic arithmetic operations.

Objective: To learn and understand operators
in C
To learn and understand switch case
statement

Theory:

Arithmetic operator:

These are the arethmetic operators-)

- + > Addition
- -> Subtraction
- \* -> Multiplication
- / -> Division
- % -> Remainder

Logical operators -1 -> Lugical next operator 11 -> Logical or operator & & -> Lugical and operator Relational operators -> -> Checks if left value is greater than value of right operand < -> Checks if left value is less than value of night operand greater >= -> (heeks if left value is bears than value of right epe or equal to night value <= > Checks if value of left operand is less than or equal to value of right.

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	Switch case ->
	The switch statement is a selectional control structure that selects a choice from the set of available choices
	Syntax -> Swith (n)
	case 2: /* code to be executed */
	break;
	breaks
	défault: /* code & to be executed if
	n doesn't match any case */
	Ey >
	#include <stdio.h></stdio.h>
	void main ()
	int no1, no2, Ans Switch (operations)
	case 1: Ans = no 1+no 2
	break; Teacher's Signature

Expt. No..... case 2: Ans=Not-No2; break; default: printf ("Choice other than 1 or 2"); break; 4. Algorithm Step 1: Start Step 2: Input two numbers (I/O)
Step 3: Input arithmetic operation (I/O)
Step 4: If (+) | (1) (Descision) a+b= ( Process) Step 5: ~ If '-' 11' 2' (Descision)

a-b=c (Process)

Display c (I10)

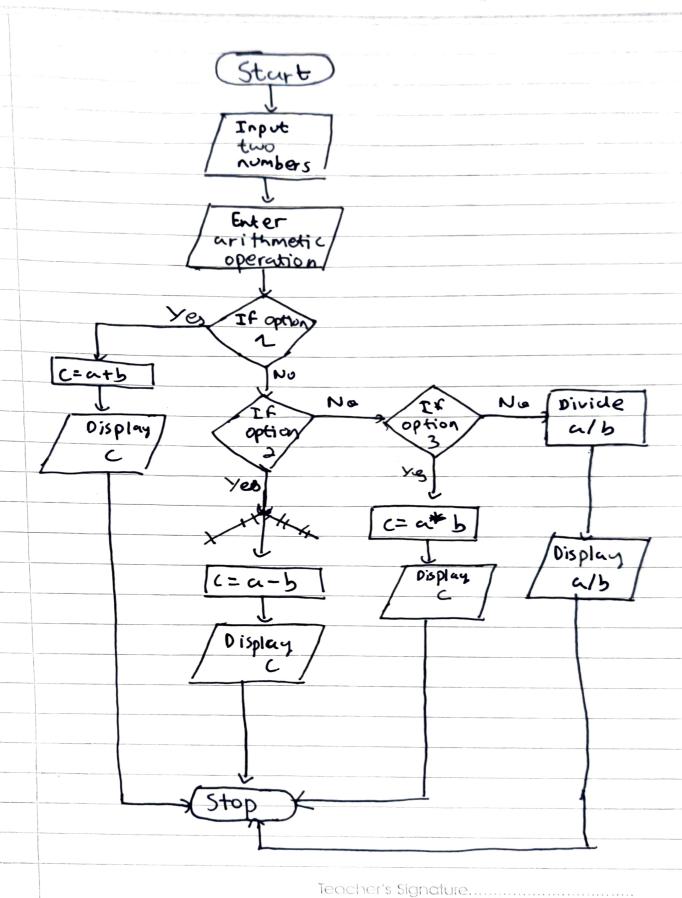
Step 6: Else if '\*' 11' 3' (Dexision)

a\*b=c (Process)

Display ( [IIO)
Step 7: Else (/) | 1 ( Descision)

a/b= ( (Process) Display ( [10).

Step8: End



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6. Input -

NO1= 14

 $NO_2 = 8$ Operation= '+', '2, (\*)

7. Output -

4 -7 22

(\*) = -) |1 ]

Conclusion: Thus implemented basic arithmetic calculator using switch case statement

FAQ

1. What is break statement

Threak statement is a loop control statement. It forces termination of a loop. It can only be used in a loop.

a Keyword? 2. Is cuse -> Yes case is a keyword used with Switch Statement. Syntax is (age 'n): //code to be executed 3. Why do we write default case? -> Default case is written & because there can be situations where none of the nequirements of a

case are fullfilled

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