S.No: 10	Exp. Name: ***Write a C program to make a simple Calculator to Add, Subtract, Multiply or Divide using switch-case***	Date:2023-01-07

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Aim:

Write a program to read two integer values and an arithmetic operator, depending on the operator perform different arithmetic operations.

If integer values **2** and **3** are given with operator **+**, then the output should be 2 + 3 = 5.

If integer values **6** and **3** are given with operator */*, then the output should be 6 / 3 = 2.

If other than arithmetic operator is given, then display "**Error! Operator is not correct**".

Note: Space before %c removes any white space (blanks, tabs, or newlines). It means %c without space will read white space like new line(\n), spaces(' ') or tabs(\t). By adding space before %c, we are skipping this and reading only the char given.

Instruction: To run your custom test cases strictly map your input and output layout with the visible test cases.

Source Code:

Program406.c

```
#include<stdio.h>
int main()
{
   int n,m;
   char c;
   printf("Values: ");
   scanf("%d%d",&n,&m);
   printf("Operator: ");
   getchar();
   scanf("%c",&c);
   switch(c)
   {
      case '+':printf("%d + %d = %d\n",n,m,n+m);
      break;
      case '-':printf("%d - %d = %d\n",n,m,n-m);
      break;
      case '*':printf("%d * %d = %d\n",n,m,n*m);
      break;
      case '/':if(m==0)
           printf("Division is not possible! Divide by zero error\n");
              else
           printf("%d / %d = %d\n",n,m,n/m);
           break;
      case '%':if(m==0)
             printf("Modulo division is not possible! Divide by zero error\n");
             else
             printf("%d %% %d = %d\n",n,m,n%m);
             break;
             default: printf("Invalid Operator\n");
   }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Values: 6 9
Operator: -
6 - 9 = -3

Test Case - 2
User Output
Values: 6 9
Operator: *
6 * 9 = 54

Test Case - 3
User Output
Values: 8 9
Operator: @
Invalid Operator

Test Case - 4
User Output
Values: 12 0
Operator: /
Division is not possible! Divide by zero error

Test Case - 5
User Output
Values: 5 0
Operator: %
Modulo division is not possible! Divide by zero error