

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

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

```

    }
    else
    {
        printf("%d %% %d = %d",a,b,a%b);
    }
    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