

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'@':printf("Invalid Operator");
        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("Error! operator is not correct\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