

**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>
void 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 |