

Medi-Caps University



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COMPUTER PROGRAMMING

Programming Assignment

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- Write a program to perform arithmetic operation on two numbers using switch case

I. Input of program

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    char operator;
```

```
    double first, second;
```

```
    printf("Enter an operator (+, -, *,): ");
```

```
    scanf("%c", &operator);
```

```
    printf("Enter two operands: ");
```

```
    scanf("%lf %lf", &first, &second);
```

```
    switch (operator)
```

```
    {
```

```
        case '+':
```

```
            printf("%.1lf + %.1lf = %.1lf", first, second, first + second);
```

```
            break;
```

```
#include <stdio.h>
int main()
{
    char operator;
    double first, second;

    printf("Enter an operator (+, -, *,): ");
    scanf("%c", &operator);

    printf("Enter two operands: ");
    scanf("%lf %lf", &first, &second);

    switch (operator)
    {
        case '+':
            printf("%.1lf + %.1lf = %.1lf", first, second, first + second);
            break;

        case '-':
            printf("%.1lf - %.1lf = %.1lf", first, second, first - second);
            break;

        case '*':
            printf("%.1lf * %.1lf = %.1lf", first, second, first * second);
            break;

        case '/':
            printf("%.1lf / %.1lf = %.1lf", first, second, first / second);
            break;

        default:
            printf("Error! operator is not correct");
    }

    return 0;
}
```

case '-':

printf("%.1lf - %.1lf = %.1lf", first, second, first - second);

break;

case '*':

printf("%.1lf * %.1lf = %.1lf", first, second, first * second);

break;

case '/':

printf("%.1lf / %.1lf = %.1lf", first, second, first / second);

break;

default:

printf("Error! operator is not correct");

}

return 0;

}

Output of Program

1st case

```
Enter an operator (+, -, *,.): +  
Enter two operands: 16  
34  
16.0 + 34.0 = 50.0  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

(Addition case)

2nd case

```
Enter an operator (+, -, *,.): -  
Enter two operands: 50  
20  
50.0 - 20.0 = 30.0  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

(Subtraction case)

3rd case

```
Enter an operator (+, -, *, /): *  
Enter two operands: 30  
60  
30.0 * 60.0 = 1800.0  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

(Multiplication case)

4th case

```
Enter an operator (+, -, *, /): /  
Enter two operands: 150  
50  
150.0 / 50.0 = 3.0  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

(Division case)