Week - 1

IBM19CS061
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1. Menu driven C - Program to design a Simple calculator which Solve 4 - Arithmetic, 4 - Relational & any two other operation.

```
#include<stdio.h>
Void main()
{
int int num1, num2, opt;
        char ch;
        do
        {
            printf("\n What's on your mind: \n");
            printf("ARITHMETIC OPERATION: \n\n 1-Addition
                \n2-Substraction \n3-Multiplication
                \n4-Division \n\n RELATIONAL
                OPERATIONS: \n \n5-Equal
                \n6-Greater than \n-7-Smaller
                than \n8-Not-equal to \n\n
                RANDOM \n\n 9-Power \n10-Area
                of rectangle (LxB) \n\n");
        Scanf("%d", &opt);
        printf("Enter the first Integer:");
        Scanf("%d", &num1);
        printf("Enter the Second Integer:");
    Scanf("%d", &num2);
    Switch(opt)
    {
        Case 1:
```

```
        printf("Addition of %d and %d is %d\n",
                num1, num2, num1 + num2);
        break;
    Case 2:
        printf("Substraction of %d and %d is %d\n",
                num1, num2, num1 - num2);
        break;
    Case 3:
        printf("Multiplication of %d and %d is %d
                \n", num1, num2, num1 * num2);
        break;
    Case 4:
        if (num2 == 0)
        {
            printf("The Second Intega is zero
                    Not Possible \n");
        }
        else
        {
            printf("Division of %d and %d is %d
                    \n", num1, num2, num1 / num2);
        }
        break;
    Case 5:
        if (num1 == num2)
            printf("Both the numbers are
                    equal\n");
        else
            printf("Both numbers are not
                    equal\n");
        break;
    Case 6:
```

```
if ( num1 > num2)
        printf (" %.d is greater than %d
            \n", num1, num2);
else if ( num2 > num1)
        printf (" %.d is greater than %d
            \n", num2, num1);
else if ( num1 = num2)
        printf (" Both are equal\n" );
break;
Case 7 :
    if (num1 < num2)
        printf (" %.d is smaller than %.d",
            num1, num2);
    else if ( num2 < num1 )
        printf (" %.d is smaller than %.d
            num2, num1);
    else if (num1 = num2)
        printf (" Both are equal");
    break;
Case 8 :
    if (num1 != num2)
        printf (" Both the numbers are
            Not equal \n");
    else
        printf (" Both numbers are equal\n");
    break;
Case 9 :
    printf (" The %d raised to the
        power of %.d is %.f \n",
        num1, num2, pow(num1, num2));
    break;
Case 10 :
```

```
        printf (" Area of Rectangle with
                length %d and Breadth %d
                is %d \n", num1, num2,
                num1 * num2 );
    default :
        printf(" Input correct option \n");
        break;
    }
    printf (" \n Do you want to Repeat the
                operation Y / N : \n");
    Scanf(" %c", &ch);
  }
while( ch = 'y' || ch = 'Y');
}
```