Assignment

Module – 2.1

1. Display This Information using printf

- **- Your Name**

- **- Your Birth date**

- **- Your Age**

- **- Your Address**

=>
```c
#include <stdio.h>
void main()
{
    printf("My name is Sahil");
    printf("I was born on 6-January-2003");
    printf("I'm 20 year old");
    printf("Riddhi Siddhi Park, Near Gondal Chowkdi ");
}
```

➢ **Output :**

```
My name is Sahil
I was born on 6-January-2003
I'm 20 years old
Riddhi Siddhi Park, Near Gondal Chowkdi
```

2. Write a program to make Simple calculator (to make addition, subtraction, multiplication, division and modulo)

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

void main()
{
    int a, b; // variables
    printf("Enter value of a: ");
    scanf("%d", &a); // get value
    printf("Enter value of b: ");
    scanf("%d", &b); // get value
    printf("\nAddition is: %d", a + b);
    // addition
    printf("\nSubtraction is: %d", a - b);
    // subtraction
    printf("\nMultiplication is: %d", a * b);
    // multiplication
    printf("\nDivision is: %.1f", (float)a /
    (float)b); // division
    printf("\nModulo is: %d", a % b); // modulo
}
```

> **Output** :
```
Enter value of a: 10
Enter value of b: 20
Addition is: 30
Subtraction is: -10
Multiplication: 200
Division: 0.5
Modulo is: 10
```

3. WAP to find area of circle, rectangle and triangle

```c
=>   #include <stdio.h>
     void main()
     {
         // Area of Circle
         int r; // variable
         float pi = 3.14; // variable
         printf("Enter radius of circle: ");
         scanf("%d", &r); // get radius
         float circle = (float)(pi * r * r);
         // formula for find area of circle
         printf("\nArea of Circle is: %.2f", circle);

         // Area of Ractangular
         float w, h; // variable
         float rect; // variable

         printf("Enter width of Rectangular: ");
         scanf("%f", &w); // get width
         printf("Enter height of Rectangular: ");
         scanf("%f", &h); // get height

         rect = w * h; // formula for find area of
                             rectangular

         printf("\nArea of Rectanguler is: %.2f",
         rect);

         // Area of Triangle
         float b, h; // variable
         float tri;  // variable
         printf("Enter base of triangle: ");
         scanf("%f", &b); // get base
         printf("Enter height of Triangle: ");
```

```c
scanf("%f", &h); // get height

tri = b * h / 2; // formula for find area
                       of triangle

printf("Area of Triangle is: %.2f", tri);
}
```

➢ **<u>Output</u>** :

```
Enter radius of circle: 20
Area of Circle is: 1256.00


Enter width of Rectangular: 10
Enter height of Rectangular: 30
Area of Rectangular is: 300.00


Enter base of triangle: 20
Enter height of Triangle: 30
Area of Triangle is: 300.00
```

4. WAP to find simple interest

```
=>  #include <stdio.h>
    void main()
    {
        float p, r, t; // variable
        float si;       // variable

        printf("Enter price: ");
        scanf("%f", &p); // get price
        printf("Enter rate: ");
        scanf("%f", &r); // get rate
        printf("Enter time of loan: ");
        scanf("%f", &t); // get time

        si = (p * r * t) / 100; // formula of simple
                                    interest

        printf("Simple Interest is: %.2f", si);
    }
```

➢ **Output** :

```
Enter price: 2000
Enter rate: 2
Enter time of loan: 12
Simple Interest is: 480.00
```

5. WAP to check if the given year is a leap year or not.

=>
```c
#include <stdio.h>
void main()
{
    int year; // variable
    printf("Enter year: ");
    scanf("%d", &year); // get the year

    if (year % 4 == 0) // condition
    {
            printf("Leap year");
    }
    else
    {
            printf("Not Leap year");
    }
}
```

➢ **Output :**
```
Enter year: 2000
Leap year
```

6. WAP to convert years into days and days into years

```c
=>  #include <stdio.h>
    void main()
    {
        float days, years; // variables
        printf("Enter Years: ");
        scanf("%f", &years); // get years

        days = years * 365; // convert years into
                            days
        printf("Days: %.1f", days);

        printf("\n\nEnter Days: ");
        scanf("%f", &days); // get Days

        years = days / 365; // convert days into
                            years
        printf("Years: %.1f", years);
    }
```

➢ **Output** :

Enter Years: 2.5

Days: 912.5

Enter Days: 30

Years: 0.1