Assignment

Module – 2.1

1. Display This Information using printf

    - Your Name

    - Your Birth date

    - Your Age

    - Your Address

```
=>   #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: ");
        scanf("%f", &h); // get height
```

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

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

➢ **Output :**

```
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

```c
=>  #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
```