MODULE: 2.1 (C Language Fundamental)

- 1. Display This Information using printf
 - 1. Your Name
 - 2. Your Birth date
 - 3. Your Age
 - 4. Your Address

```
#include <stdio.h>
int main()
{
    printf("Name : Jalpa Ashokbhai Vadgama \n");
    printf("DOB : July 23, 1994 \n");
    printf("Age : 29 \n");
    printf("Address : Morbi \n");
    return(0);
}
```

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

```
#include<stdio.h>
main()
       // Calculator
       int num1,num2;
       printf("Enter number 1 \n");
       scanf("%d",&num1);
       printf("Enter number 2 \n");
       scanf("%d",&num2);
       printf("Addition
                             : %d \n",num1+num2);
       printf("Substraction : %d \n",num1-num2);
       printf("Multipication : %d \n",num1*num2);
       printf("Division : %d \n",num1/num2);
       printf("Modulo
                             : %d \n",num1%num2);
}
```

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

```
#include <stdio.h>
#include <math.h>
int main()
        // Area of Circle
        float radius, area;
        printf("\n**Area of Circle**\n");
        printf("Enter the radius of a circle:");
        scanf("%f",&radius);
        area = 3.14159*radius*radius;
        printf("Area of the Circle = %.2f\n", area);
        // Area of Rectangle
        float height, width, Area;
        printf("\n\n**Area of Rectangle**\n");
        printf("Enter the height of a rectangle: ");
        scanf("%f",&height);
        printf("Enter the width of a rectangle: ");
        scanf("%f",&width);
        Area=width*height;
        printf("Area of the Rectangle = %.2f\n",Area);
        // Area of Triangle
        float base, Height, AREA;
        printf("\n\n**Area of Triangle**\n");
        printf("Enter the base of the triangle: ");
        scanf("%f",&base);
        printf("Enter the height of the triangle: ");
        scanf("%f",&Height);
        AREA = (base * Height) / 2;
        printf("Area of the Triangle is = %.2f\n", AREA);
        return 0;
}
```

4. WAP to find simple interest

```
#include <stdio.h>
int main()
{
    //Simple interest
    float principle, time, rate, SI

    printf("Enter principle amount: ");
    scanf("%f", &principle);

    printf("Enter interest rate: ");
    scanf("%f", &rate);

    printf("Enter number of year: ");
    scanf("%f", &time);

SI = (principle * rate * time ) / 100;
    printf("Simple Interest = %f", SI);
    return 0;
}
```

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

```
#include<stdio.h>
int main()
{
    // Year is leap year or not
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);

    if((year%4==0) && (year%400==0) || (year%100!=0))
    {
        printf("%d is a leap year",year);
        }
        else
        {
            printf("%d is not a leap year",year);
        }
        return 0;
}
```

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

```
#include<stdio.h>
int main()
        // Days into Years
        int days, years;
        printf("Enater Days :\n");
        scanf("%d",&days);
        years = days/365;
        printf("Number of years is : %d \n",years);
        // Years into Days
        int year;
        printf("\nEnter Years :\n");
        scanf("%d",&year);
        days = year*365;
        printf("Number of days is : %d",days);
        return 0;
}
```