

Modulo :- 3.1

SE-Fundamentals of Programming

1. Display This Information using printf

A. Your Name

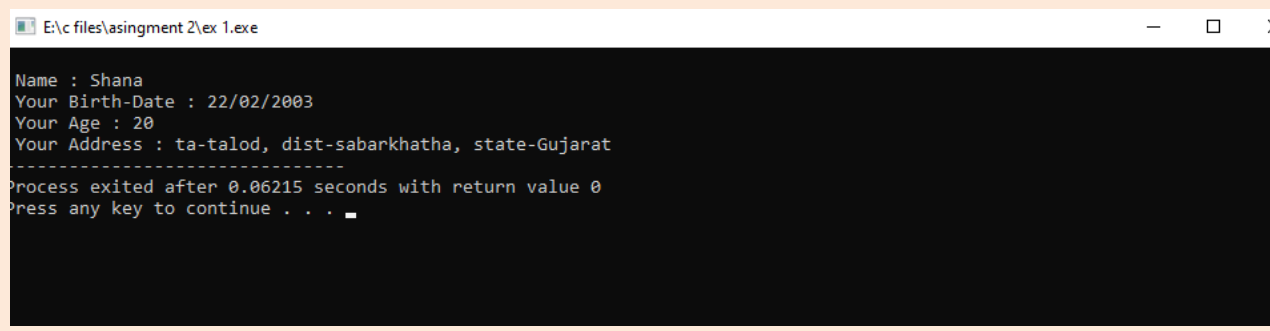
B. Your Birth Date

C. Your Age

D. Your Address

```
➤ #include<stdio.h>
main ()
{
    printf(" \n Name : Shana");
    printf(" \n Your Birth-Date : 22/02/2003");
    printf(" \n Your Age : 20");
    printf(" \n Your Address : ta-talod, dist-sabarkhatha, state-Gujarat");
    return 0;
}
```

Output

A screenshot of a Windows command prompt window. The title bar shows the file path "E:\c files\asingment 2\ex 1.exe". The window has standard minimize, maximize, and close buttons. The command prompt displays the following text: "Name : Shana", "Your Birth-Date : 22/02/2003", "Your Age : 20", "Your Address : ta-talod, dist-sabarkhatha, state-Gujarat", followed by a line of dashes "-----", "Process exited after 0.06215 seconds with return value 0", and "Press any key to continue . . .".

```
E:\c files\asingment 2\ex 1.exe
Name : Shana
Your Birth-Date : 22/02/2003
Your Age : 20
Your Address : ta-talod, dist-sabarkhatha, state-Gujarat
-----
Process exited after 0.06215 seconds with return value 0
Press any key to continue . . .
```

2.WAP to make Simple calculator (to make adition, subtraction, multiplication, division, modulo)

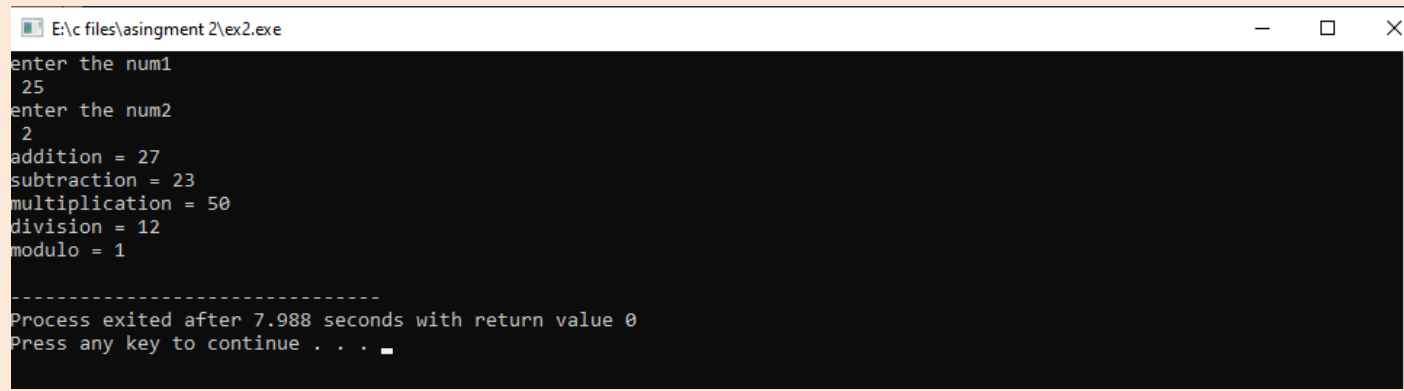
➤ **#include<stdio.h>**
main()
{

```
int num1, num2, addition, subtraction, multiplication,
division, modulo;
printf("enter the num1 \n ");
scanf("%d",&num1);
printf("enter the num2 \n ");
scanf("%d",&num2);
addition = num1 + num2;
subtraction = num1 - num2;
multiplication = num1 * num2;
division = num1 / num2;
modulo = num1 % num2;

printf("addition = %d \n",addition);
printf("subtraction = %d \n",subtraction);
```

```
printf("multiplication = %d \n",multiplication);  
printf("division = %d \n",division);  
printf("modulo = %d \n",modulo);  
return 0;  
  
}
```

Output



```
E:\c files\assignment 2\ex2.exe  
enter the num1  
25  
enter the num2  
2  
addition = 27  
subtraction = 23  
multiplication = 50  
division = 12  
modulo = 1  
  
-----  
Process exited after 7.988 seconds with return value 0  
Press any key to continue . . .
```

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

```
➤ #include<stdio.h>
   main()
   {
       float radius, base,height,length,breadth;
       float pi=3.14;

       printf("Enter radius of circle : ");
       scanf("%f",&radius);
       printf("enter base and height of triangle : ");
       scanf("%f%f",&base, &height);
       printf("enter length and breadth of rectangle :");
       scanf("%f%f",&length,&breadth);

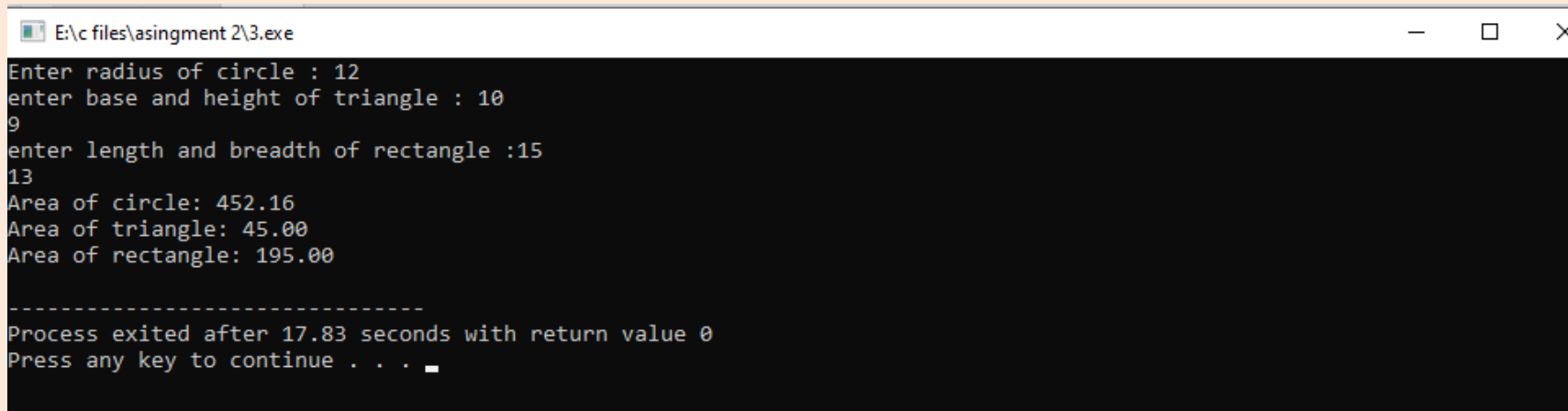
       float area_of_circle = pi * radius * radius;
       float area_of_triangle = 0.5 * base * height;
```

```
float area_of_rectangle = length * breadth;

printf("Area of circle: %.2f \n",area_of_circle);
printf("Area of triangle: %.2f \n",area_of_triangle);
printf("Area of rectangle: %.2f \n",area_of_rectangle);

return 0;
}
```

OUTPUT



```
E:\c files\asingment 2\3.exe
Enter radius of circle : 12
enter base and height of triangle : 10
9
enter length and breadth of rectangle :15
13
Area of circle: 452.16
Area of triangle: 45.00
Area of rectangle: 195.00

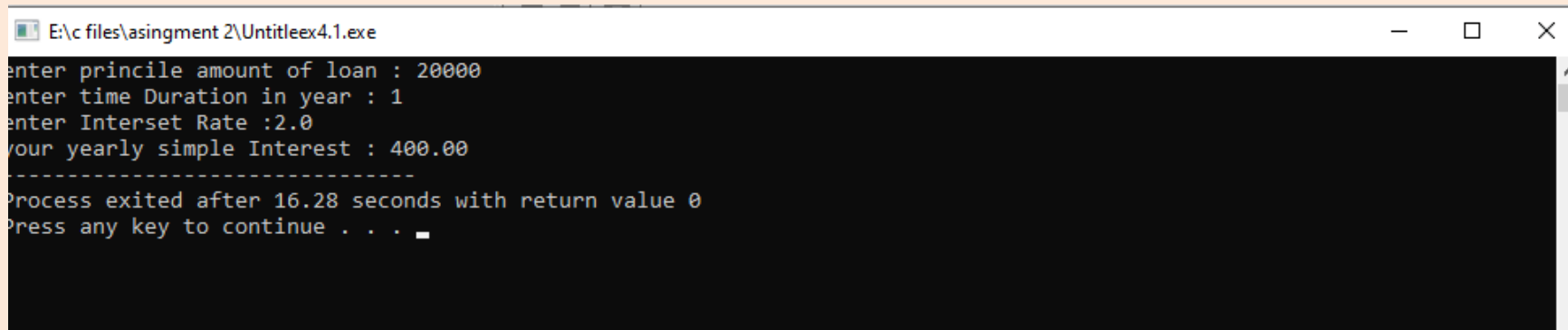
-----
Process exited after 17.83 seconds with return value 0
Press any key to continue . . .
```

4.WAP to find simple interest.

```
➤ #include<stdio.h>
main()
{
    float interest, amount, time, rate;
    printf("enter princile amount of loan : ");
    scanf("%f",&amount);
    printf("enter time Duration in year : ");
    scanf("%f", &time);
    printf("enter Interset Rate :");
    scanf("%f",&rate);

    interest=(amount*time*rate)/100;
    printf("your yearly simple Interest : %.2f",interest);
    return 0;
}
```


OUTPUT



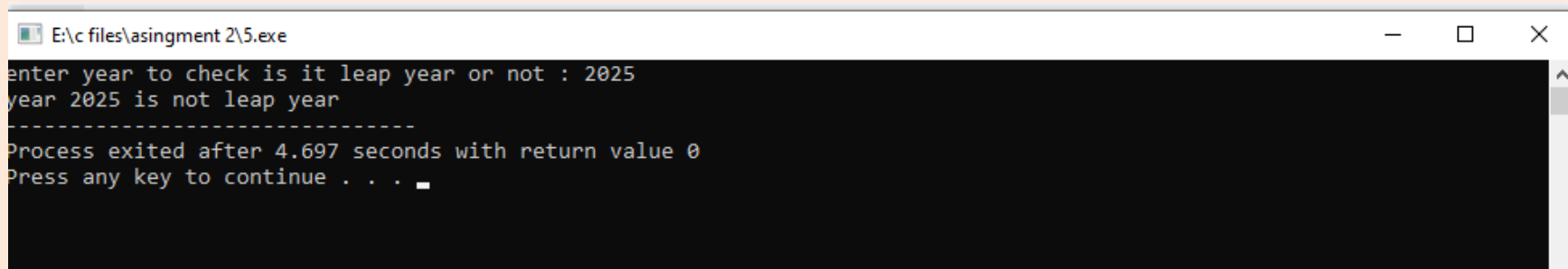
```
E:\c files\asingment 2\Untitlex4.1.exe
enter princile amount of loan : 20000
enter time Duration in year : 1
enter Interaset Rate :2.0
your yearly simple Interest : 400.00
-----
Process exited after 16.28 seconds with return value 0
Press any key to continue . . .
```

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

```
➤ #include<stdio.h>
main()
{
    int year , leapyear;
    printf("enter year to check is it leap year or not : ");
    scanf("%d",&year);
```

```
leapyear = year % 4;
if(leapyear==0)
{
    printf("year %d is leap year", year);
}
else
{
    printf("year %d is not leap year",year);
}
return 0;
}
```

OUTPUT



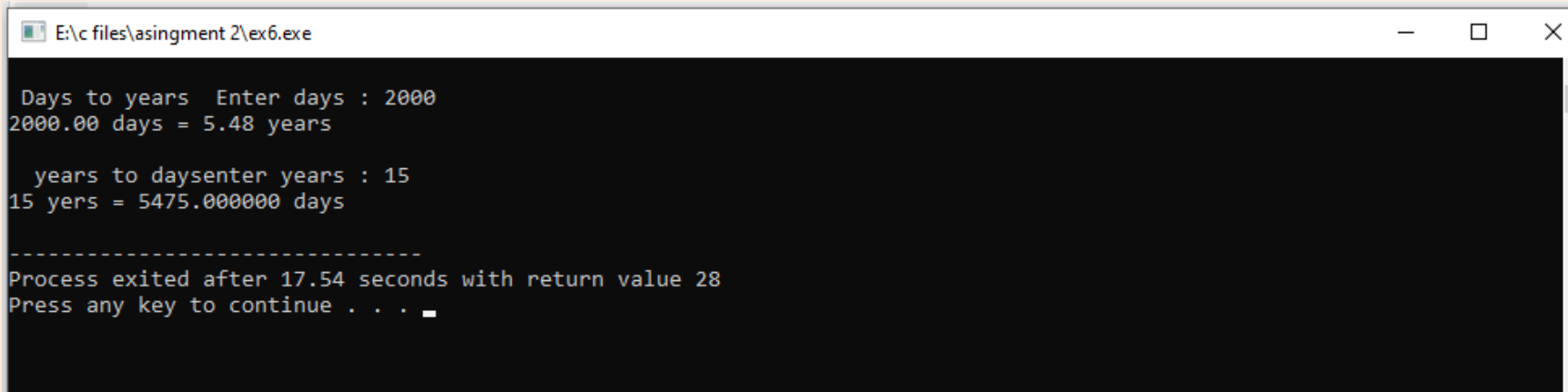
```
E:\c files\asingment 2\5.exe
enter year to check is it leap year or not : 2025
year 2025 is not leap year
-----
Process exited after 4.697 seconds with return value 0
Press any key to continue . . .
```

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

```
#include<stdio.h>
main ()
{
    float days, daystoyears, years, yearstoday;
    printf("\n Days to years ");
    printf("Enter days : ");
    scanf("%f",&days);
    daystoyears = days/365;
    printf("%.2f days = %.2f years \n",days,daystoyears);
}
```

```
printf("\n years to days");  
printf("enter years : ");  
scanf("%f",&years);  
yearstodays = years*365;  
printf("%2.f yers = %2f days \n", years,yearstodays);  
}
```

OUTPUT



```
E:\c files\asingment 2\ex6.exe  
  
Days to years Enter days : 2000  
2000.00 days = 5.48 years  
  
years to days enter years : 15  
15 yers = 5475.000000 days  
  
-----  
Process exited after 17.54 seconds with return value 28  
Press any key to continue . . .
```

