**Experiment: 1**

**Aim:** Write down a program to find out the area of a circle.

**Software:** Dev C++

**Code:**

**#include<stdio.h>**

**#define PI 3.14159**

int main**(void)**

**{**

**double** radius,area;

**printf("**Enter A Radius Of Circle:-**");**

**scanf("**%lf **", &radius);**

**area=** PI \* radius \* radius **;**

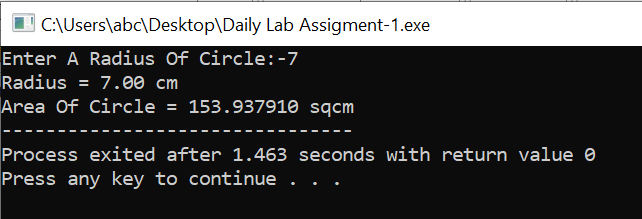
**printf("**Radius = %.2lf cm**\n",radius);**

**printf("**Area Of Circle = %lf sqcm**",area);**

return **0;**

**}**

**Output:**

****

**Experiment: 2**

**Aim:** Write down a program to calculate simple interest.

**Software:** Dev C++

**Code:**

**#include<stdio.h>**

int main**(void)**

**{**

**double** principle\_value,rate\_of\_interset,simple\_interest;

**float** time\_period;

**printf("**Enter Your Principle Value**:-");**

**scanf("**%lf**",&principle\_value);**

**printf("**Enter Your Rate Of Interest**:-");**

**scanf("**%lf**",& rate\_of\_interset);**

**printf("**Enter Your Time Period**:-");**

**scanf("**%f**",&time\_period);**

**simple\_interest = (** principle\_value \* rate\_of\_interset \* time\_period **) /100 ;**

**printf("**Principle Value= Rs **%.2lf** /-**\n",**principle\_value**);**

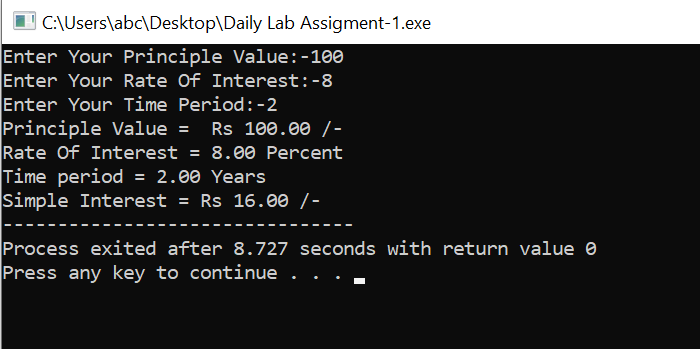
**printf("**Rate Of Interest **= %.2f** Percent **\n",**rate\_of\_interset**);**

**printf("**Time period **= %.2f** Years **\n",**time\_period**);**

**printf("**Simple Interest **=** Rs **%.2lf /-",**simple\_interest**);**

**return 0;**

**}**

**Output:**

**Experiment: 3**

**Aim:**  Write a program to find out the average of three numbers.

**Software:** Dev C++

**Code:-**

**#include<stdio.h>**

int main**(void)**

**{**

**double number,addition=0,average=0;**

**int i;**

**for(i=**1**;i<=**3**;i++)**

**{**

**printf("**Enter A Number**-%d:-",i);**

**scanf("%lf",&**number**);**

**addition =** addition + number **;**

**}**

**average =** addition / (i-1) **;**

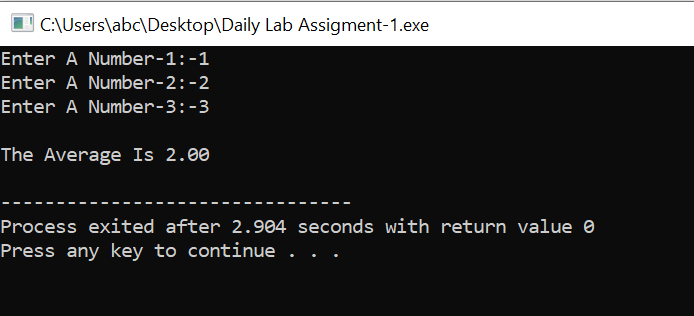
**printf("\n");**

**printf("**The Average Is **%.2lf\n",average);**

return **0;**

**}**

**Output:**



**Experiment: 4**

**Aim:**  Write a program to swap two numbers without using a third variable.

**Software:** Dev C++

**Code:-**

**#include<stdio.h>**

int main**(void)**

**{**

**double** number\_1,number\_2;

**printf("**Enter The Number-1**:-");**

**scanf("%lf",&**number\_1**);**

**printf("**Enter The Number-2:-**");**

**scanf("%lf",&**number\_2**);**

**printf("\n");**

**printf("**BeforeSwap**\n**Number-1**=%.2lf\**nNumber-2=**%.2lf",**number\_1,number\_2**);**

number\_1 = number\_1 + number\_2 ; //a=a+b;//a=30 (10+20)

number\_2 = number\_1 - number\_2 ; //b=a-b;//b=10 (30-20)

number\_1 = number\_1 - number\_2 ; //a=a-b;//a=20 (30-10)

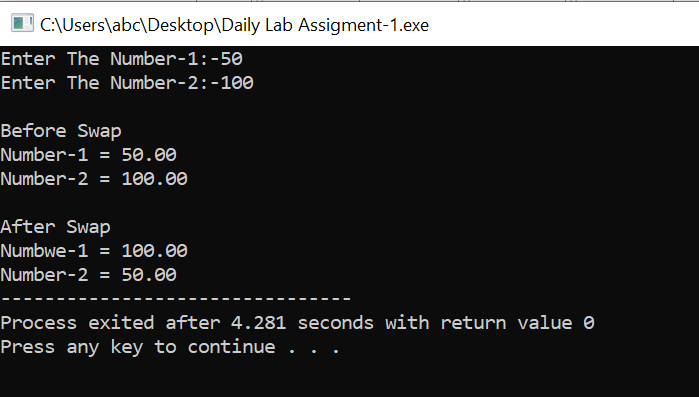
**printf("\n\n");**

**printf("**After Swap**\n**Numbwe-1 **= %.2lf\**nNumber-2 **= %.2lf",**number\_1,number\_2**);**

**return 0;**

**}**

**Output:-**



**Experiment: 5**

**Aim:-**  Write a program to multiply two floating-point numbers by using float and double variables.

**Software:-** Dev C++

**Code:-**

**#include<stdio.h>**

int main**(void)**

**{**

**float** number\_1,number\_2,float\_multiplication **;**

**double** double\_multiplication **;**

**printf("**Enter A Number-1:-**");**

**scanf("%f",&**number\_1**);**

**printf("**Enter A Number-2:-"**);**

**scanf("%f",&**number\_2**);**

**float\_multiplication =** number\_1 \* number\_2 **;**

**double\_multiplication =** number\_1 \* number\_**2 ;**

**printf("**Multiplication Of Flaot In Float Variable **= %f\n",float\_multiplication);**

**printf("**Multiplication Of Float In Double Variable **= %f",double\_multiplication);**

**return 0;**

**}**

**Output:-**

