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**Technology**

**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;

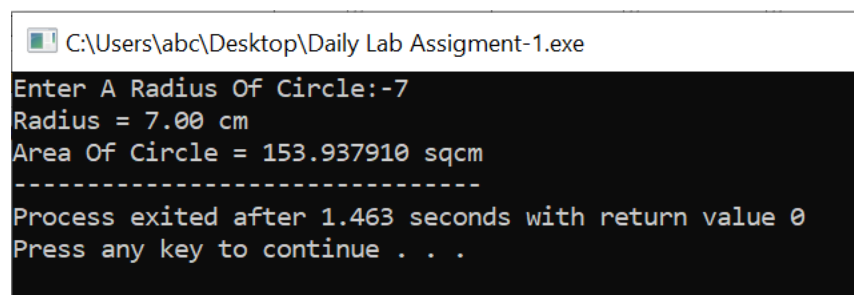
    printf("Enter A Radius Of Circle:-");
    scanf("%lf", &radius);

    area= PI * radius * radius ;

    printf("Radius = %.2lf cm\n",radius);
    printf("Area Of Circle = %lf sqcm",area);

    return 0;
}
```

**Output:**



```
C:\Users\abc\Desktop\Daily Lab Assigment-1.exe
Enter A Radius Of Circle:-7
Radius = 7.00 cm
Area Of Circle = 153.937910 sqcm
-----
Process exited after 1.463 seconds with return value 0
Press any key to continue . . .
```

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**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;
}
```

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**Output:**

```
C:\Users\abc\Desktop\Daily Lab Assigment-1.exe
Enter Your Principle Value:-100
Enter Your Rate Of Interest:-8
Enter Your Time Period:-2
Principle Value = Rs 100.00 /-
Rate Of Interest = 8.00 Percent
Time period = 2.00 Years
Simple Interest = Rs 16.00 /-
-----
Process exited after 8.727 seconds with return value 0
Press any key to continue . . .
```

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**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;
}
```


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**Output:**

 C:\Users\abc\Desktop\Daily Lab Assigment-1.exe

```
Enter A Number-1:-1  
Enter A Number-2:-2  
Enter A Number-3:-3
```

```
The Average Is 2.00
```

```
-----  
Process exited after 2.904 seconds with return value 0  
Press any key to continue . . .
```

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**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\nNumber-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\nNumbwe-1 = %.2lf\nNumber-2 = %.2lf",number_1,number_2);
```

```
    return 0;
```

```
}
```

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**Output:-**

---

C:\Users\abc\Desktop\Daily Lab Assigment-1.exe

```
Enter The Number-1:-50
Enter The Number-2:-100

Before Swap
Number-1 = 50.00
Number-2 = 100.00

After Swap
Numbwe-1 = 100.00
Number-2 = 50.00
-----
Process exited after 4.281 seconds with return value 0
Press any key to continue . . .
```

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**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;
```

```
}
```

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**Output:-**

```
D:\Aryan\Sem-1\ICP\Daily Lab Assigment-1\Code-5.exe
Enter A Number-1:-4.5
Enter A Number-2:-2.5
Multiplication Of Flaot In Float Variable: = 11.250000
Multiplication Of Float In Double Variable: = 11.250000
-----
Process exited after 6.348 seconds with return value 0
Press any key to continue . . .
```

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