Experiment: 1

1. **Aim:** Input a Rupees and prints its value converted into Dollar.

Software: Dev C++

Code:

```c
#include <stdio.h>
#include <conio.h>

int main()
{
    double rupee, dollar;

    printf("Enter Your Amount in Rupee:");
    scanf("%lf", &rupee);

    dollar = 0.012 * rupee;

    printf("INR %0.2lf = $%0.2lf", rupee, dollar);

    return 0;
}
```

Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming Assigr

Enter Your Amount In Rupee:-82
INR 82.00 = $0.98
--------------------------------
Process exited after 6.526 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Marwadi University
Faculty of Technology
Department of Information and Communication Technology

Experiment: 2

Aim: Input two numbers and prints its Addition, Subtraction, Multiplication, and Division.

Software: Dev C++

Code:

```c
2)  #include <stdio.h>
    #include <conio.h>

    int main ()
    {
        double a, b;

        printf("Enter the First value:");
        scanf("%lf", &a);
```

```c
        printf("Enter The Second value:");
        scanf("%lf", &b);

        printf("Addition is %0.2lf \n", a+b);
        printf("substraction is %0.2lf \n", a-b);
        printf("Multiplication is %0.2lf \n", a*b);
        printf("Division is %0.2lf \n", a/b);

        return 0;

    }
```

Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming A

Enter The First Value:-5
Enter The Second Value:-6
Addtion Is 11.00
Substraction Is -1.00
Multiplication Is 30.00
Division Is 0.83

--------------------------------
Process exited after 1.971 seconds with return value 0
Press any key to continue . . . _
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 3

Aim: Verify the formula x=((k-4)*(a*4))/100

Software: Dev C++

Code:-

```
3)  #include<stdio.h>
    #include<conio.h>

    int main()
    {
        double k, a, x;

        printf(" Enter the value of k:");
        scanf("%lf", &k);

        printf("Enter the value of a:-");
        scanf("%lf", &a);

        x = ((k-4)*(a*4))/100;

        printf("Value of x is %0.2lf", x);

        return 0;
    }
```

Output:

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming As

Enter The Value Of k:-6
Enter The Value Of a:-7
Value Of x Is 0.56
--------------------------------
Process exited after 5.558 seconds with return value 0
Press any key to continue . . . _
```

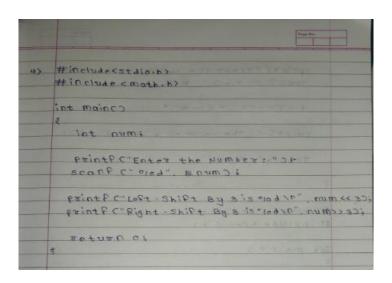Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 4

Aim: Write down a program to implement Left and Right shift operator (shifting should be by 3).

Software: Dev C++

Code:-

Output:-


```
Enter The Number:-8
Left-Shift By 3 is 64
Right-Shift By 3 is 1
--------------------------------
Process exited after 6.037 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 5

Aim:- Verify the formula t=((v+s)+(l-m)*l)

Software:- Dev C++

Code:-

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Output:-

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming As:
Enter The Value Of v:-8
Enter The Value Of s:-9
Enter The Value Of l:-6
Enter The Value Of m:-7
The Value Of t is 11
--------------------------------
Process exited after 5.609 seconds with return value 0
Press any key to continue . . . ■
```

Experiment: 6

Aim:- Verify the formula a=p*(1+(r/100)/n)-p

Software:- Dev C++

Code:-

Output:-

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming As
Enter The Value Of p:-100
Enter The Value of r:-8
Enter The Value Of n:-2
Value Of p is 4.00
--------------------------------
Process exited after 5.445 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 7

Aim:- Verify the formula s=((4*a+c)-2*a*b)/100

Software:- Dev C++

Code:-

Output:-


```
Enter The Value Of a:-7
Enter The Value Of b:-8
Enter The Value Of c:-9
The Value Of s is -0.75
--------------------------------
Process exited after 3.15 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

Experiment: 8

Aim:- Verify the formula l=(c+d)*(g+h).

Software:- Dev C++

Code:-

```
8)  #include <stdio.h>
    #include <math.h>

    int main()
    {
        int c, d, g, h;
        float l;

        scanf("%d %d %d %d", &c, &d, &g, &h);

        l = (c+d)*(g+h);

        printf("l = %0.2f", l);

        return 0;
    }
```

Output:-

```
D:\Aryan\Sem-1\ICP\Assigment\Programming Assigment\Programming /
Enter The Value Of c:-4
Enter The Value Of d:-5
Enter The Value Of g:-6
Enter The Value Of h:-7
The Value of l is 117.00
--------------------------------
Process exited after 2.449 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030

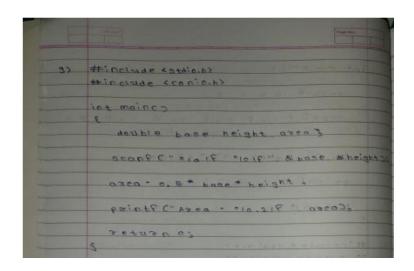## Experiment: 9

Aim:- Write a program to find out the area of a right-angle triangle.

Software:- Dev C++

Code:-

Output:-


```
Enter The Base of Traingle:-5
Enter The Height of Traingle:-6
The Area of Right-Angle Triangle is 15.00
--------------------------------
Process exited after 3.92 seconds with return value 0
Press any key to continue . . .
```

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030
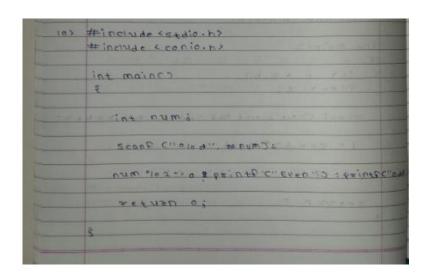
Experiment: 10

Aim:- Verify the formula t=((v+s)+(l-m)*l)

Software:- Dev C++

Code:-

Output:-

Student Name:- Aryan Dilipbhai Langhanoja
Roll_No_:- 92200133030