

Q. Input and print

Write a program that asks the user's name, and then greets the user by name. Before outputting the user's name, convert it to upper case letters. For example, if the user's name is Fred, then the program should respond "Hello, FRED, nice to meet you!".

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        System.out.println("Hello,"+str+",nice to meet you!");
    }
}
```

Sample Input

rishwanth

Sample Output

Hello,rishwanth,nice to meet you!

Result

Thus, Program " **Input and print** " has been successfully executed

Q. Day Old Bread

A bakery sells loaves of bread for 185 rupees each. Day old bread is discounted by 60 percent. Write a program that begins by reading the number of loaves of day old bread being purchased from the user. Then your program should display the regular price for the bread, the discount because it is a day old, and the total price. All of the values should be displayed using two decimal places, and the decimal points in all of the numbers should be aligned when reasonable values are entered by the user.

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=a*185;
        double c=b*.60;
        double t=b-c;
        System.out.println("Loaves Discount");
        System.out.println("Regular Price "+b);
        System.out.println("Total Discount "+c);
        System.out.println("Total Amount to be paid "+t);
    }
}
```

Sample Input

15

Sample Output

Loaves Discount
Regular Price 2775
Total Discount 1665.0
Total Amount to be paid 1110.0

Result

Thus, Program " **Day Old Bread** " has been successfully executed

Q. Java program to get student details.

In this program we will read student details like name, roll number, marks in math, physics and English then print the student details with name, roll number, inputted marks, total marks and percentage.

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        String str=sc.next();
        System.out.println("Name="+str);
        int a=sc.nextInt();
        System.out.println("Roll Number="+a);
        int b=sc.nextInt();
        int c=sc.nextInt();
        int d=sc.nextInt();
        System.out.print("Marks="+b);
        System.out.print(" "+c);
        System.out.println(" "+d);
        int t=(b+c+d);
        System.out.println("Total="+t);
        System.out.println("Percentage="+t/3.0);
    }
}
```

Sample Input

```
Mike
101
88 77 99
```

Sample Output

```
Name=Mike
Roll Number=101
Marks=88 77 99
Total=264
Percentage=88.0
```

Result

Thus, Program " **Java program to get student details.** " has been successfully executed

Q. Display Name

Write a program that asks the user to enter his or her name. The program should respond with a message that says hello to the user, using his or her name.

Source Code

```
import java.util.*;  
public class TestClass {  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        String str=sc.nextLine();  
        System.out.println("Hello,"+str+" Welcome to eLab Java");  
    }  
}
```

Sample Input

Suresh

Sample Output

Hello,Suresh Welcome to eLab Java

Result

Thus, Program " **Display Name** " has been successfully executed

Q. Cost of driving

Write a program that prompts the user to enter the distance to drive, the fuel efficiency of the car in miles per gallon, and the price per gallon, and displays the cost of the trip.

Use Double Data Type and

`String.format(" %.2f", outputValue);`

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        double a=sc.nextDouble();
        double b=sc.nextDouble();
        double c=sc.nextDouble();
        double t=(a/b)*c;
        System.out.println(String.format("%.2f",t));
    }
}
```

Sample Input

243 23 1

Sample Output

10.57

Result

Thus, Program " **Cost of driving** " has been successfully executed

Q. Assignment Operator

Sneha got a single integer as an input , and her task to perform all assignment operations in with the given input . Let us help her to solve with the following conditions met,

To Perform ,

Assign an input the new the variable and display
Using addition assignment operation($c+=3$; $c=c+3$)
Using Subtraction assignment operation
Using division assignment operation
Using modulus assignment operation
Input and Output Format:

Refer sample input and output for formatting specification.All float values are displayed correct to 2 decimal places.All text in bold corresponds to input and the rest corresponds to output.

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        System.out.println("Addition:"+(a+b));
        System.out.println("Subtraction:"+(a-b));
        System.out.println("Multiplication:"+(a*b));
        System.out.println("Division:"+(a/b));
        System.out.println("Modulus:"+(a%b));
    }
}
```

Sample Input

6
4

Sample Output

Addition:10
Subtraction:2
Multiplication:24
Division:1
Modulus:2

Result

Thus, Program " **Assignment Operator** " has been successfully executed

Q. Get Input using Scanner

Write Java program to allow the user to input his/her age. Then the program will show if the person is eligible to vote. A person who is eligible to vote must be older than or equal to 18 years old

Source Code

```
import java.util.*;  
public class TestClass {  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        int a=sc.nextInt();  
        if(a>=18)  
            System.out.println("You are eligible to vote");  
        else  
            System.out.println("You are not eligible to vote");  
    }  
}
```

Sample Input

14

Sample Output

You are not eligible to vote

Result

Thus, Program " **Get input using Scanner** " has been successfully executed

Q. Distance of two points

Write a program that prompts the user to enter two points (x1, y1) and (x2, y2) and displays their distance between them.

Use Double Data Type and

String.format(" %.2f", outputValue);

Source Code

```
import java.util.*;  
public class TestClass {  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        double a=sc.nextDouble();  
        double b=sc.nextDouble();  
        double c=sc.nextDouble();  
        double d=sc.nextDouble();  
        double t=Math.sqrt(((c-a)*(c-a))+((d-b)*(d-b)));  
        System.out.println(String.format("%.2f",t));  
    }  
}
```

Sample Input

2 3 4 5

Sample Output

2.83

Result

Thus, Program " **Distance of two points** " has been successfully executed

Q. Convert integer to float

Given an input as integer to the machine , he need to get the output of corresponding floating point number with five digit after decimal points. Please help him to write the program that satisfy the output.

Input and Output Format:

Refer sample input and output for formatting specification.

All text in bold corresponds to input and the rest corresponds to output

Source Code

```
import java.util.*;  
public class TestClass {  
    public static void main(String[] args) {  
        Scanner sc=new Scanner(System.in);  
        int a=sc.nextInt();  
        float b=a;  
        System.out.println(b);  
    }  
}
```

Sample Input

12

Sample Output

12.0

Result

Thus, Program " **Convert integer to float** " has been successfully executed

Q. Bottle Deposit

In many jurisdictions a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter or less have a 0.10 deposit, and drink containers holding more than one liter have a 0.25 deposit.

Write a program that reads the number of containers of each size from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a rupees and always displays exactly two decimal places.

Source Code

```
import java.util.*;
public class TestClass {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        double t=((a*.10)+(b*.25));
        System.out.println("Refund for Bottles="+String.format("%.2f",t));

    }
}
```

Sample Input

23
22

Sample Output

Refund for Bottles=7.80

Result

Thus, Program " **Bottle Deposit** " has been successfully executed