**1.** Write a Java program to print 'Hello' on screen and then print your name on a separate line.    
Hello  
Anudeep

import java.util.Scanner;  
public class Main  
{  
 public static void main(String[] args) {  
   
 Scanner name = new Scanner(System.in);  
 System.out.println("enter first name");  
 String fname=name.next();  
 System.out.println("enter last name");  
 String lname=name.next();  
   
 System.out.println("Hello \n"+fname+" "+lname);  
 }  
}

or

public class Main  
{  
 public static void main(String[] args) {

System.out.println("Hello \n Anudeep");

}  
}

**2.** Write a Java program to print the sum of two numbers   
Test Data:  
74 + 36  
*Expected Output* :  
110

public class Main  
{  
 public static void main(String[] args) {

int a=74;  
 int b=36;  
 int sum;  
 sum = a + b;  
 System.out.println("Sum of "+a+" + "+b+" is "+sum);  
 }  
}

**3.** Write a Java program to divide two numbers and print on the screen   
Test Data :  
50/3  
*Expected Output* :  
16

public class Main  
{  
 public static void main(String[] args) {  
   
 int a=50;  
 int b=3;  
 int Div;  
 Div = a / b;  
 System.out.println("Div of \n"+a+" / "+b+ "\n" +Div);  
   
   
 }  
}

**4.** Write a Java program to print the result of the following operations.  *Test Data:*  
a. -5 + 8 \* 6  
b. (55+9) % 9  
c. 20 + -3\*5 / 8  
d. 5 + 15 / 3 \* 2 - 8 % 3  
*Expected Output* :  
43  
1  
19  
13

public class Main  
{  
 public static void main(String[] args) {

System.out.println(-5 + 8 \* 6);  
 System.out.println((55+9) % 9);  
 System.out.println(20 + -3\*5 / 8);  
 System.out.println(5 + 15 / 3 \* 2 - 8 % 3);  
 }  
}

**5.** Write a Java program that takes two numbers as input and display the product of two numbers. *Test Data:*  
Input first number: 25  
Input second number: 5  
*Expected Output* :  
25 x 5 = 125

import java.util.Scanner;  
public class Main  
{  
 public static void main(String[] args) {

Scanner number = new Scanner(System.in);  
 System.out.println("enter first number");  
 int fnumber=number.nextInt();  
 System.out.println("enter last number");  
 int lnumber=number.nextInt();  
   
 System.out.println("Product is \n"+fnumber+" \* "+lnumber+ " = " +fnumber\*lnumber );  
  
 }  
}

[**6.**](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-5.php) Write a Java program to print the sum (addition), multiply, subtract, divide and remainder of two numbers. *Test Data:*  
Input first number: 125  
Input second number: 24  
*Expected Output* :  
125 + 24 = 149  
125 - 24 = 101  
125 x 24 = 3000  
125 / 24 = 5  
125 mod 24 = 5

import java.util.Scanner;  
public class Main  
{  
 public static void main(String[] args) {

Scanner number = new Scanner(System.in);  
 System.out.println("enter 1st number");  
 int num1=number.nextInt();  
 System.out.println("enter 2nd number");  
 int num2=number.nextInt();  
 System.out.println("Sum of" +num1+ "+" +num2+ "=" +(num1 + num2));  
 System.out.println("Difference of" +num1+ "-" +num2+ "=" + (num1 - num2));  
 System.out.println("Product of" +num1+ "\*" +num2+ "=" + (num1 \* num2));  
 System.out.println("Div of" +num1+ "/" +num2+ "=" +(num1 / num2));

System.out.println("Mod of" +num1+ "%" +num2+ "=" +(num1 % num2));  
  
  
 }  
}

[**7.**](https://www.w3resource.com/java-exercises/basic/java-basic-exercise-6.php) Write a Java program that takes a number as input and prints its multiplication table upto 10. *Test Data:*  
Input a number: 8  
*Expected Output* :  
8 x 1 = 8  
8 x 2 = 16  
8 x 3 = 24  
...  
8 x 10 = 80

import java.util.Scanner;  
public class Main  
{  
 public static void main(String[] args) {

Scanner number = new Scanner(System.in);  
 System.out.println("enter a number");  
 int number1=number.nextInt();  
   
 for(int i=0;i<10;i++){  
 System.out.println(number1+ " x " + (i+1) +" = " + (number1 \* (i+1)));  
 }  
  
  
 }  
}

**8.** Write a Java program to display the following pattern.   
*Sample Pattern :*

J a v v a

J a a v v a a

J J aaaaa V V aaaaa

JJ a a V a a

public class Main  
{  
 public static void main(String[] args) {

System.out.println(" J a v v a");  
 System.out.println(" J a a v v a a");  
 System.out.println("J J aaaaaa V V aaaaaa");  
 System.out.println(" JJ a a V a a");  
   
   
  
 }  
}

**9.** Write a Java program to compute the specified expressions and print the output. *Test Data:*  
((25.5 \* 3.5 - 3.5 \* 3.5) / (40.5 - 4.5))  
*Expected Output*  
2.138888888888889

public class Main  
{  
 public static void main(String[] args) {

double a = (25.5 \* 3.5 - 3.5 \* 3.5);   
 double b = (40.5 - 4.5);  
 System.out.println(+(a/b));  
   
  
 }  
}

**10.** Write a Java program to compute a specified formula.   
*Specified Formula :*  
4.0 \* (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11))  
*Expected Output*  
2.9760461760461765

public class Main  
{  
 public static void main(String[] args) {

double a = 4.0;   
 double b = (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11));  
 System.out.println(+(a\*b));  
  
 }  
}

**11.** Write a Java program to print the area and perimeter of a circle.  *Test Data:*  
Radius = 7.5  
*Expected Output*  
Perimeter is = 47.12388980384689  
Area is = 176.71458676442586

public class Main  
{  
 public static void main(String[] args) {

float r = 7.5f;  
 double pi=3.141592653589;  
 System.out.println("Perimeter of circle is" + (2\*pi\*r));  
 System.out.println("Area of circle is" + (pi\*r\*r));  
  
 }  
}

**12.** Write a Java program that takes three numbers as input to calculate and print the average of the numbers.

import java.util.Scanner;  
public class Main  
{  
 public static void main(String[] args) {

Scanner number = new Scanner(System.in);  
 System.out.println("Enter 1st number");  
 int a=number.nextInt();   
 System.out.println("Enter 2nd number");  
 int b=number.nextInt();   
 System.out.println("Enter 3rd number");  
 int c=number.nextInt();   
 System.out.println("Average = " +((a+b+c)/3));  
   
   
   
 }  
}

**13.** Write a Java program to print the area and perimeter of a rectangle.

*Test Data:*  
Width = 5.5 Height = 8.5

*Expected Output*  
Area is 5.6 \* 8.5 = 47.60  
Perimeter is 2 \* (5.6 + 8.5) = 28.20

public class Main  
{  
 public static void main(String[] args) {

float a=5.6f;  
 float b=8.5f;  
 System.out.println("Area of rectangle ="+(a\*b));  
 System.out.println("Perimeter of rectangle ="+(2\*(a+b)));  
   
   
 }  
}