1. Write a Java program to get a number from the user and print whether it is positive or negative.

Test Data  
Input number: 35  
Expected Output :  
Number is positive

1. Write a Java program to solve quadratic equations (use if, else if and else).

Test Data  
Input a: 1  
Input b: 5  
Input c: 1  
Expected Output :  
The roots are -0.20871215252208009 and -4.7912878474779195

3.Take three numbers from the user and print the greatest number.

Test Data  
Input the 1st number: 25  
Input the 2nd number: 78  
Input the 3rd number: 87  
Expected Output :  
The greatest: 87  
  
**4.** Write a Java program that reads a floating-point number and prints "zero" if the number is zero. Otherwise, print "positive" or "negative". Add "small" if the absolute value of the number is less than 1, or "large" if it exceeds 1,000,000.

Test Data  
Input a number: 25  
Expected Output :  
Input value: 25  
Positive number

**5**. Write a Java program that reads in two floating-point numbers and tests whether they are the same up to three decimal places.

Test Data  
Input floating-point number: 25.586  
Input floating-point another number: 25.589  
Expected Output :  
They are different

**6.**Write a Java program that takes a year from user and print whether that year is a leap year or not.

Test Data  
Input the year: 2016  
Expected Output :  
2016 is a leap year

1. Write a program in Java to display the first 10 natural numbers.

Expected Output :

The first 10 natural numbers are:

1

2

3

4

5

6

7

8

9

10

**8**. Write a program in Java to display n terms of natural numbers and their sum.

Test Data  
Input the number: 2  
Expected Output :

Input number:

2

The first n natural numbers are :

2

1

2

The Sum of Natural Number upto n terms :

23

**9**. Write a program in Java to input 5 numbers from keyboard and find their sum and average.

Test Data  
Input the 5 numbers : 1 2 3 4 5  
Expected Output :

Input the 5 numbers :

1

2

3

4

5

The sum of 5 no is : 15

The Average is : 3.0

**10.** Write a program in Java to display the cube of the number upto given an integer.

Test Data  
Input number of terms : 4  
Expected Output :

Number is : 1 and cube of 1 is : 1

Number is : 2 and cube of 2 is : 8

Number is : 3 and cube of 3 is : 27

Number is : 4 and cube of 4 is : 64

**11**.Write a program in Java to display the multiplication table of a given integer.

Test Data  
Input the number (Table to be calculated) : Input number of terms : 5  
Expected Output :

5 X 0 = 0

5 X 1 = 5

5 X 2 = 10

5 X 3 = 15

5 X 4 = 20

5 X 5 = 25

**12.** Write a program in Java to display the n terms of odd natural number and their sum.

Test Data  
Input number of terms is: 5  
Expected Output :

The odd numbers are :

1

3

5

7

9

The Sum of odd Natural Number upto 5 terms is: 25

**13**. Write a program in Java to display the pattern like right angle triangle with a number.

Test Data  
Input number of rows : 10  
Expected Output :

1

12

123

1234

12345

123456

1234567

12345678

123456789

12345678910

**14.** Write a program in Java to make such a pattern like right angle triangle with a number which will repeat a number in a row.The pattern is as follows :

1

22

333

4444

**15.** Write a program in Java to make such a pattern like right angle triangle with number increased by 1.The pattern like :

1

2 3

4 5 6

7 8 9 10

**16.** Write a program in Java to make such a pattern like a pyramid with a number which will repeat the number in the same row.

1

2 2

3 3 3

4 4 4 4

**17.** Write a program in Java to print the Floyd's Triangle.

Test Data  
Input number of rows : 5  
Expected Output :

Input number of rows : 5

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

1. Write a program that accepts three numbers from the user and prints "increasing" if the numbers are in increasing order, "decreasing" if the numbers are in decreasing order, and "Neither increasing or decreasing order" otherwise.

Test Data  
Input first number: 1524  
Input second number: 2345  
Input third number: 3321  
Expected Output :

Increasing order

1. Write a Java program to convert temperature from Fahrenheit to Celsius degree.  
   Test Data  
   Input a degree in Fahrenheit: 212  
   Expected Output:  
   212.0 degree Fahrenheit is equal to 100.0 in Celsius

**20.**Write a Java program to break an integer into a sequence of individual digits.

Test Data  
Input six non-negative digits: 123456  
Expected Output :  
1 2 3 4 5 6

**21.**Write a Java program to sum values of an array.

**22.**Write a Java program to calculate the average value of array elements

1. Write a Java program to find the index of an array element.
2. Write a Java program to find the maximum and minimum value of an array.
3. Write a Java program to reverse an array of integer values.