

Q1. Write a Java program to print 'Hello' on screen and then print your name on a separate line.

Expected Output :

Hello

Mohamed

Q2. 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

Q3. Write a Java program to compute the area of a hexagon. Area of a hexagon = $(6 * s^2)/(4 * \tan(\pi/6))$, where s is the length of a side

Test Data

Input the length of a side of the hexagon: 6

Expected Output

The area of the hexagon is: 93.53074360871938

Q4. 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

Q5. Write a Java program that reads an integer between 0 and 1000 and adds all the digits in the integer.

Test Data

Input an integer between 0 and 1000: 565

Expected Output :

The sum of all digits in 565 is 16

Q6. Write a Java program to takes the user for a distance (in meters) and the time was taken (as three numbers: hours, minutes, seconds), and display the speed, in meters per second, kilometers per hour and miles per hour (hint: 1 mile = 1609 meters).

Test Data

Input distance in meters: 2500

Input hour: 5

Input minutes: 56

Input seconds: 23

Expected Output :

Your speed in meters/second is 0.11691531

Your speed in km/h is 0.42089513
Your speed in miles/h is 0.26158804

Q7. 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