**Assignment#1 (OOP in JAVA)**

**Total marks 50 (each question carries 10 marks)**

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

*Expected Output*:  
Hello  
Dnaiel

1. 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

1. Write a Java program to print the following string in a specific format (see the output).

Sample Output

Twinkle, twinkle, little star,

How I wonder what you are!

Up above the world so high,

Like a diamond in the sky.

Twinkle, twinkle, little star,

How I wonder what you are

1. Write a Java program to print the area and perimeter of a circle.  (Use math class for constants)  
   Test Data:  
   Radius = 7.5  
   Expected Output  
   Perimeter is = 47.12388980384689  
   Area is = 176.71458676442586
2. Write a Java program to compute the area of a polygon.    
   Area of a polygon = (n\*s^2)/(4\*tan(π/n))  
   where n is n-sided polygon and s is the length of a side  
   Input Data:  
   Input the number of sides on the polygon: 7  
   Input the length of one of the sides: 6  
   *Expected Output*

The area is: 130.82084798405722