/\*

Name: Srinivas Simhan

Due: 9/23/18

Class: CIS 296 - Baugh

Assignment: Homework #1

\*/

package test.pkg1;

/\*

A pentagonal number is defined as n(3n-1)/2

for n=1,2,..., and so on. Therefore, the first

few numbers are 1, 5, 12, 22, ... .

Written is a method with the following

header that returns a pentagonal number:

public static int getPentagonalNumber(int n)

Here is a test program that uses this method

to display the first 100 pentagonal numbers

with 10 numbers on each line.

\*/

public class Test1

{

public static int getPentagonalNumber(int n)

{

return (n \* (3 \* n - 1)) / 2;

}

public static void main(String[] args)

{

System.out.println("The first 100 pentagonal number are:");

for (int i = 1; i < 101; i++)

{

System.out.printf("%7d ", getPentagonalNumber(i));

if (i % 10 == 0)

{

System.out.println();

}

}

System.out.println("Thank you for trying out the program!");

}

}