1. Implement Stack data structure which will store objects of Contact class.

Contact class will have attributes : First name, Middle name, Last name, Date of birth, Gender, Mobile number. Follow Java Bean Specifications while designing Contact.java

Use exception handling to apply the following rules:

* 1. A pop must fail on an empty stack
  2. A push must fail on a stack which is already full
  3. A push must fail on a stack if the Contact object’s validation fails.

(Note : Stack class will have array of Contact objects as member variable and

It will have methods like pop and push. )

1. Create a class called AverageCalculator that has the following method:

public double calAverage(int n)

This method receives an integer as a parameter and calculates the average of first n natural numbers. If n is not a natural number, throw an exception **IllegalArgumentException** with an appropriate message.