Lab Exercise-5

Advanced Programming Lab-II

1. **Create your own Exception class**

   Make a class University. This class has a method 'exam( )'. exam( ) returns an exception 'ExamSuspendException' if stranger things happen in the University. You can implement this by having a Boolean variable (say boolean strangerThings) set to true or false. Create another class 'JUET'. JUET has a method named 't1( )'. t1( ) makes a call to exam( ) along with other normal statements. Make a class ExamSuspendException and declare it extending the class Exception. Override its printStackTrace( ) method. Make a Test class and test your code with four possible scenarios:

   a) t1( ) handles ExamSuspendException using try-catch
   b) t1( ) ducks Exception
   c) main ( ) handles Exception using try-catch
   d) main ( ) ducks Exception

2. **Exceptions are polymorphic**

   Create Exception classes for Cloth, Pant, Shirt and Tshirt. Override printStackTrace ( ). Create a class called 'LaundryTest'. This class has a method called unift ( ) which is a risky function and throws PantException, ShirtException, TshirtException or ClothException, if there is an issue in respective garment type. LaundryTest also has a main method, which calls unfit( ). Do the following one-by-one and observe the output:

   a) create multiple catch statements, in order Tshirt, Shirt, Pant, Cloth, in the main to handle different exceptions. The last statement inside the main method should be System.out.println("Last line of main");
   b) make a catch block return nothing. Add finally block after all catch blocks. Write something dummy inside finally as well.
   c) change the order of catch blocks like ClothException, TshirtException, ShirtException, PantException