1. Create a package ‘mru’ and create sub packages cse,aiml in your current working directory

Create a default class student in the above subpackages with the following attributes: name, age, gender and grade. Have methods for storing as well as displaying

1. Write a method multiCatch(int[] arr, int index) in the value. class MultiCatchBlocks where arr contains integer array values and index contains an integer

Write the code in try block to print the value of arr[index] and also print the division value of arr[index] by index.  
  
 Write the catch blocks for:

ArithmeticException which will print "Division by zero exception occurred"

ArrayIndexOutOfBoundsException which will print "Array index out of bounds exception occurred". Exception (which catches all exceptions) will print "Exception occurred"

1. WAP to create your own exception as NegativeException whenever negative values are put in an array
2. Write a Java program that implements a Multi-Thread application that has three threads. The first thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.
3. Write a Java program that correctly implements Producer Consumer problem using the concept of Inter Thread communication.
4. Write a Java Program to create Array List and retrieve the Array List using iterators
5. Write a Java Program to perform stack operation using Collections
6. Write a Java program that displays the number of characters, lines and words in a text file
7. Write a java program that connects to a database using JDBC and does create ,insert, deletes, modify and retrieve operations on student table