**CO 4 Questions**

1. Create a Graphics package that has classes and interfaces for figures Rectangle, Triangle, Square and Circle. Test the package by finding the area of these figures.
2. Write a user defined exception class to authenticate the user name and password.
3. Find the average of N positive integers, raising a user defined exception for each negative input.
4. Define 2 classes; one for generating Fibonacci numbers and other for displaying even numbers in a given range. Implement using threads. (Runnable Interface).
5. Program to create a generic stack and do the Push and Pop operations.
6. Maintain a list of Strings using ArrayList from collection framework, perform built-in operations.
7. Program to demonstrate the creation of queue object using the Priority Queue class.
8. Program to demonstrate the addition and deletion of elements in dequeue.
9. Write a Java program to compare two hash set.
10. Program to demonstrate the working of Map interface by adding, changing and removing elements.