Experiment No. __9__

Date of performance: 09/10/22

Date of Submission: 09/10/22

SAP Id: 500091584

Roll No.: R2142210822

Name of the Student: Ujjwal Kumar Gupta

1. Title: Threads and Collections

2. Objective: Threads and Collections

3. List of lab activities:

- 1) Write a program to implement the concept of threading by extending Thread Class and Runnableinterface.2) Write a program for generating
- 2) 2 threads, one for printing even numbers and the other for printingodd numbers.
- 3) Write a program to launch 10 threads. Each thread increments a counter variable. Run the programwith synchronization.
- 4) Write a Java program to create five threads with different priorities. Send two threads of the highestpriority to sleep state. Check the aliveness of the threads and mark which thread is long lasting

TITLE: Collections

- 1) Write a program for the following:Read all elements from ArrayList by using Iterator.Create duplicate object of an ArrayList instance.Reverse ArrayList content.
- 2) Write a program for the following HashMapfind whether specified key exists or not.find whether specified value exists or notget all keys from the given HashMapget all key-value pair as Entry objects
- 3) Write a program for the following HashSetcopy another collection object to HashSet object.delete all entries at one call from HashSetsearch user defined objects from HashSet
 - 4. Algorithm/Flowchart and Code followed by Output screenshot (2samples for each program):

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### Representation of the property of the prop
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5. Brief notes about all the concepts related to the lab experiment