Activity 3:

1. Write a program to demonstrate the knowledge of students in working with Java collection framework.

Eg., Assume only a maximum of 3 courses can be registered by a student for week end semester classes. Create a hashmap 'h1' with 'n' key-value pairs where keys are the names of students and values are the courses registered by them. Create another hashmap 'h2' with 'm'key-value pairs where keys are the names of courses offered for B.Tech and values are the names of faculty handling the courses. Write appropriate code to

- Add or remove a student from h1
- Iterate over the maps and display the key-value pairs stored in them
- Given a student name, fetch the names of all those who teach him/her.

Eg:, if the elements of h1 are

Stud name	Courses registered
A	Python, maths, c
B	c, c++
C	C++, physics,chemistry

And if the elements of h2 are

Course name	Faculty
Python	111
Maths	222
C	333
C++	444
Physics`	555
Chemistry	666
Digital electronics	777

For the student "B", faculty should be displayed as 333 and 444.

2. Write a Java program using JavaFX, when user enter a coursecode in one textfield, course title should be displayed in another textfield with an action event.

3. Using JDBC, create a state table with statename, statecapital as data fields. Perform CRUD operations on state table using JDBC.