Session-2 Lab

- 1. Write a Java program that demonstrates the following operations on a HashSet:
- Create a HashSet of integers.
- Add the numbers 5, 10, 15, 20, and 25 to the set. Display the elements of the set.
- Check if the set contains the number 10.
- Remove the number 15 from the set.
- Display the size of the set.
- 2. Write a Java program to simulate the "Hot Potato" game using a queue. In this game, players stand in a circle and pass a potato (or any other object) while music plays. When the music stops, the player holding the potato is out.
- Create a queue to represent the circle of players.
- Enqueue player names.
- Dequeue players one by one and enqueue them again to simulate passing the potato.
- Repeat the dequeue and enqueue process, simulating the music stopping and players being eliminated until only one player remains.