**Readme file for Q-1 and Q-5**

**For Question-1:**

**Run LinkedListSetOperations.java file.**

**It will ask for size of both the Linked List and their elements. Enter your values.**

**Example:**

**Enter the size of the first Linked Lists:**

6

**Enter elements for the first Linked List:**

2

4

5

7

10

12

**Enter the size of the second Linked Lists:**

5

**Enter elements for the second Linked List:**

1

3

4

7

9

**List1: 2 4 5 7 10 12**

**List2: 1 3 4 7 9**

**-----Intersect Operation-----**

**Intersect Output List: 4 7**

**-----Union Operation-----**

**Union Output List: 1 2 3 4 5 7 9 10 12**

**-----Set Difference Operation-----**

**Difference Output List: 2 5 10 12**

**For Question-5:**

**Run BoundedQueueOperations.java file.**

**It will ask for various input. Enter your values.**

**Example:**

**Do you want to perform any operation- yes/no?**

yes

**Which operation you want to perform: offer/poll/peek/print?**

offer

**How many elements you want to offer/add?**

17

**Enter the elements:**

1

**Element added at front:1**

2

**Element added:2**

3

**Element added:3**

4

**Element added:4**

5

**Element added:5**

6

**Element added:6**

7

**Element added:7**

8

**Element added:8**

9

**Element added:9**

10

**Element added:10**

11

**Element added:11**

12

**Element added:12**

13

**Element added:13**

14

**Element added:14**

15

**Queue size doubled from 16 to 32**

**Element added after resize:15**

16

**Element added:16**

17

**Element added:17**

**Which operation you want to perform: offer/poll/peek/print?**

peek

**Head of the queue:1**

**Which operation you want to perform: offer/poll/peek/print?**

poll

**How many elements you want to poll/remove?**

5

**Element polled:1**

**Element polled:2**

**Element polled:3**

**Element polled:4**

**Element polled:5**

**Which operation you want to perform: offer/poll/peek/print?**

peek

**Head of the queue:6**

**Which operation you want to perform: offer/poll/peek/print?**

poll

**How many elements you want to poll/remove?**

12

**Element polled:6**

**Element polled:7**

**Element polled:8**

**Element polled:9**

**Queue size halved from 32 to 16**

**Element polled:10**

**Element polled:11**

**Element polled:12**

**Element polled:13**

**Element polled:14**

**Element polled:15**

**Element polled:16**

**Element polled:17**

**Which operation you want to perform: offer/poll/peek/print?**

peek

**Cannot peek into empty Queue! Perform offer!**

**Which operation you want to perform: offer/poll/peek/print?**