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Enrollment number - 21162101012
Branch - CBA , Batch - 31
OOP Practical 20

<u>Problem</u>: Rajiv was assigned a task to structure the data using a Queue interface wherein he was asked to structure the programming subjects semester wise within the queue followed by retrieval of the head element of the queue. Remove the two heads of the queue and add an element as 'Semester 6: Pascal' into the queue. Display the overall list of elements present within the queue.

Program:

```
package Hare_Krishna;
import java.util.LinkedList;
import java.util.Queue;
import java.util.Scanner;
public class Prac_20
{
   static public void main(String... s)
       Scanner sc = new Scanner(System.in);
       Queue<String> q = new LinkedList⇔();
       for (int i = 0; i < 5; i++) {
           q.add(sc.nextLine());
```

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```
System.out.println(q);
    q.remove();
    q.add("Semester 6: Pascal");
    System.out.println(q);
}
```

Output:

```
■ ● ● Bare_Krishna [-/Documents/sem3practicals/OOP/Hare_Krishna] - .../src/Hare_Krishna/Prac... † 2.7 kb/s ↓ 1.6 kb/s
                                                                                                                                                                   <u>File Edit View Navigate Code Refactor Build Run Tools Git W</u>indow <u>H</u>elp
Hare_Krishna ⟩ src ⟩ Hare_Krishna ⟩ 🎯 Prac_20 ⟩ 🔊 mair
                                                                                                                                            ■ Project ▼
■ ex1
                                                         package Hare_Krishna;
                                                                                                                                /usr/lib/jvm/default/bin/java
         © ex2
                                                                                                                                -javaagent:/usr/share/idea/lib/idea_rt
                                                                                                                         .jar=35899:/usr/share/idea/bin -Dfile.encoding=UTF-8
-classpath /home/yash/Documents/sem3practicals/00P
                                                         import java.util.LinkedList;
                                                         import java.util.Queue;
         IBM 3dot1
                                                                                                                            /Hare_Krishna/bin/production/Hare_Krishna:/home/yash/
                                                         import java.util.Scanner;
         IBM_3dot2
                                                                                                                          .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7
                                                                                                                                .10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/
         @ prac_2
                                                                                                                                .m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7
         ₫ prac_3
                                                              static public void main(String... s)
                                                                                                                                 .10/kotlin-stdlib-1.7.10.jar:/home/yash/
         @ prac_5
                                                                                                                                 .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1
         # prac_5_bfrrdr.java
                                                                  Scanner sc = new Scanner(System.in);
                                                                                                                                 .7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/
                                                                  Queue<String> q = new LinkedList♦();
                                                                                                                                 .m2/repository/org/jetbrains/annotations/13
       > @ prac_8.java
                                                                                                                                 .0/annotations-13.0.jar:/home/yash/
       > @ prac_9.java
                                                                                                                                 .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7
                                                                                                                                 .10/kotlin-stdlib-jdk7-1.7.10
       > @ Prac 12.iava
                                                                                                                                 .jar:/home/yash/Documents/sem3practicals/00P/Hare_Krishna
        > @ Prac_13.java
                                                                                                                                 /mariadb-java-client-3.1.0.jar Hare_Krishna.Prac_20
                                                                                                                                Semester 1 : C
         @ Prac 15
                                                                  q.add("Semester 6: Pascal");
                                                                                                                                Semester 2 : C++
         @ Prac_16
                                                                                                                                Semester 3 : Java
                                                                  System.out.println(a):
                                                                                                                                Semester 4 : Python
         @ Prac 18
         @ Prac_19
                                                                                                                                Semester 5 : Advanced Java
         StrRev
         ◎ TowerofHanoi
       > @ UseofThis.java
                                                                                                                                Process finished with exit code 0
       > GYSL_ex_inhrt2.java
         Show Applications
    > III mariadb-iava-client-3.1.0.iar
    IIII External Libraries
                                                                            Scratches and Consoles
      ≔ TODO  ۞ Services
es are up-to-date (a minute ago)
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```