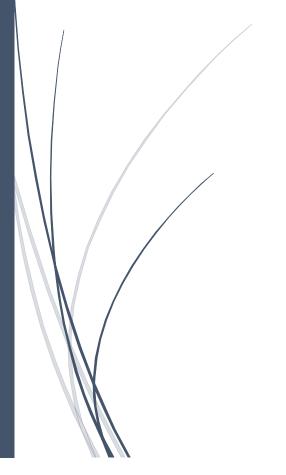
9/14/2024

Data Structures

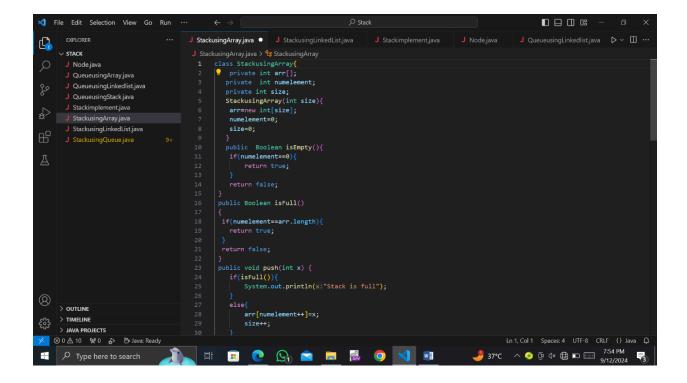
Lab 4 exercise solutions

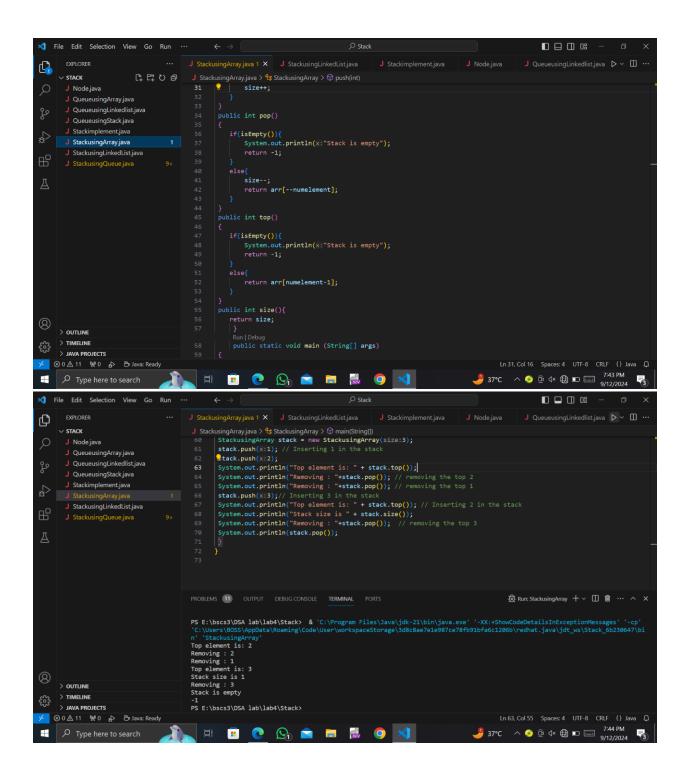


Uzair Ali Memon S/O Yar Muhammad Memon B-S CS III Section A 023-23-0350

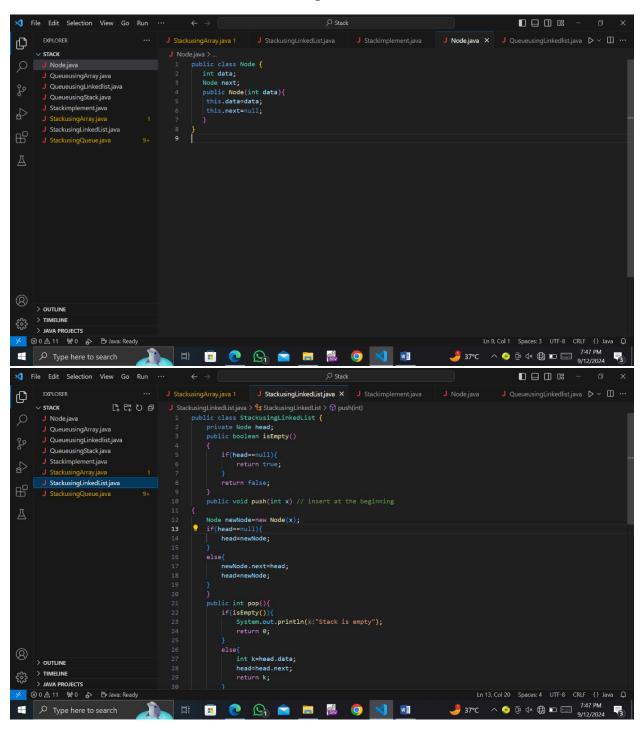
To: Ma'am Marina Rajpoot

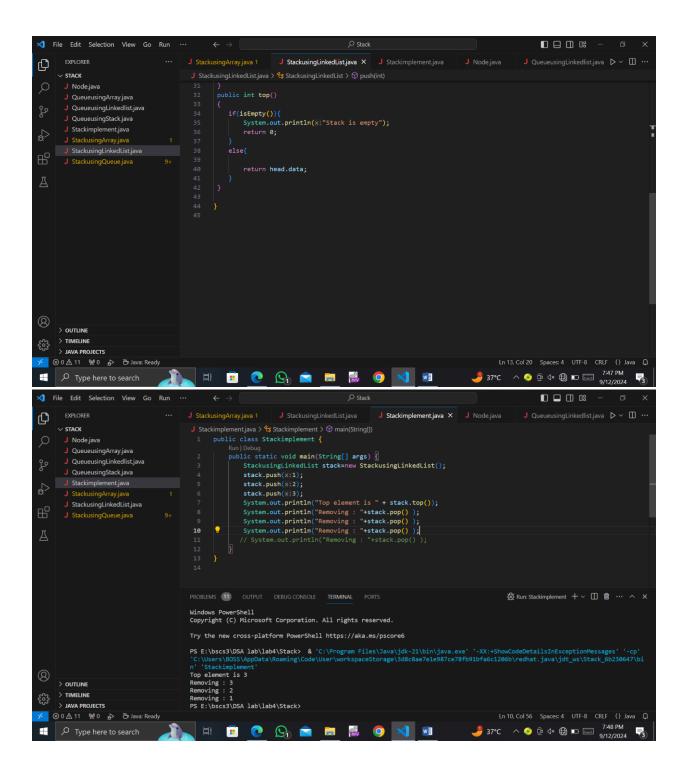
Stack using Array



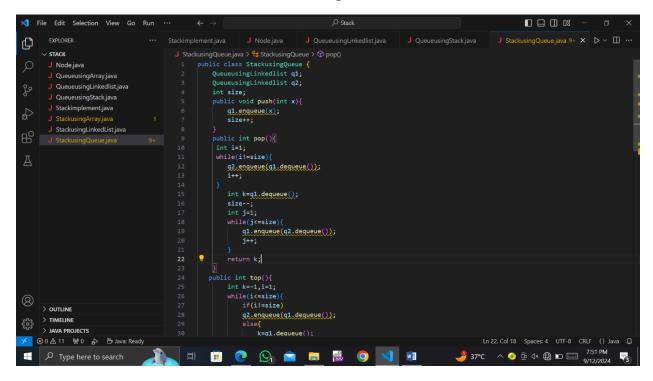


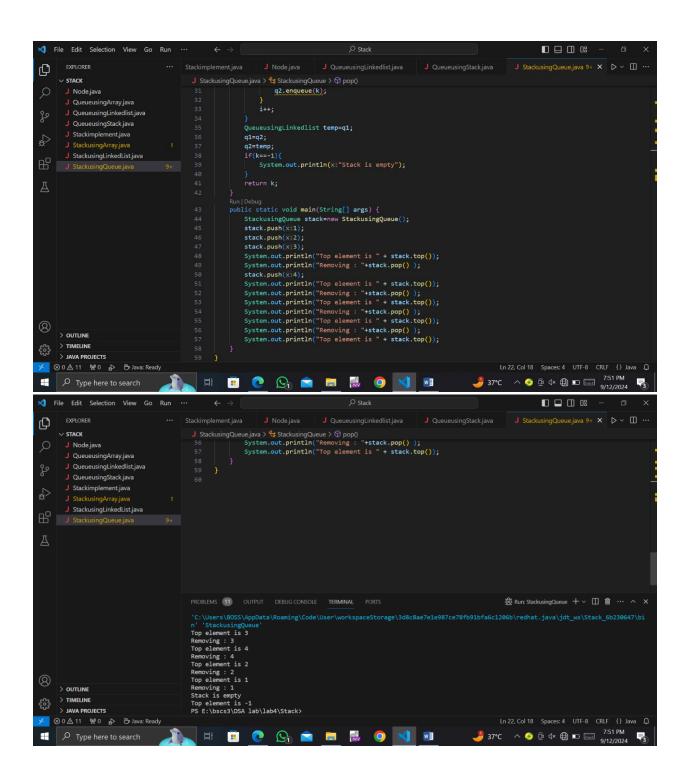
Stack using Linked List





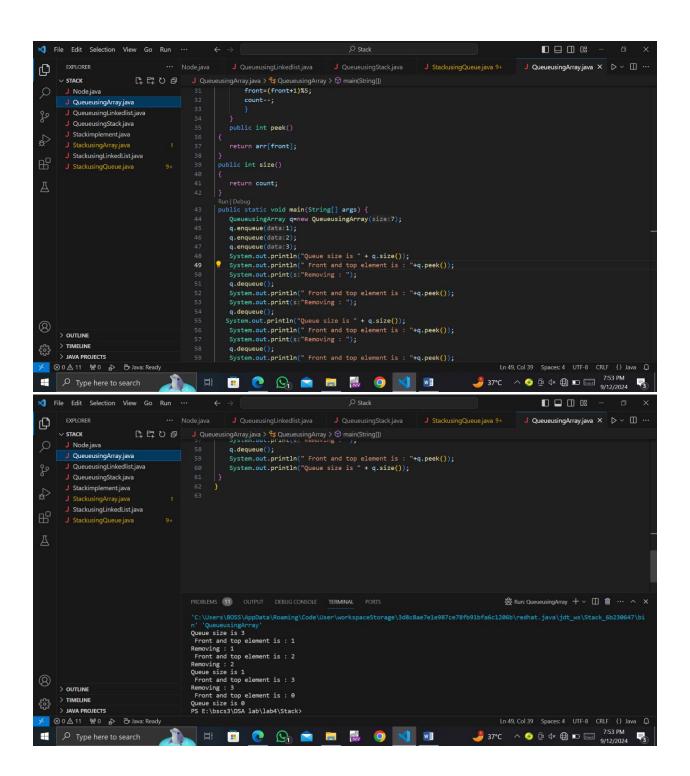
Stack using Queue



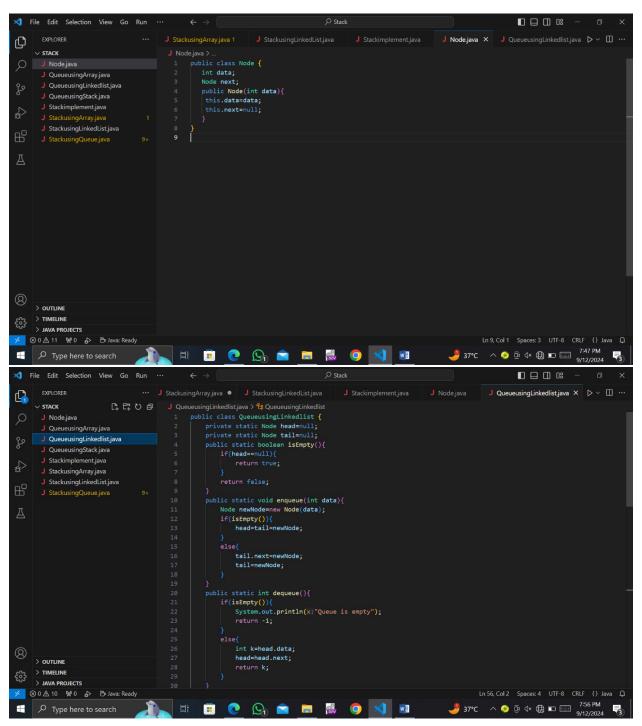


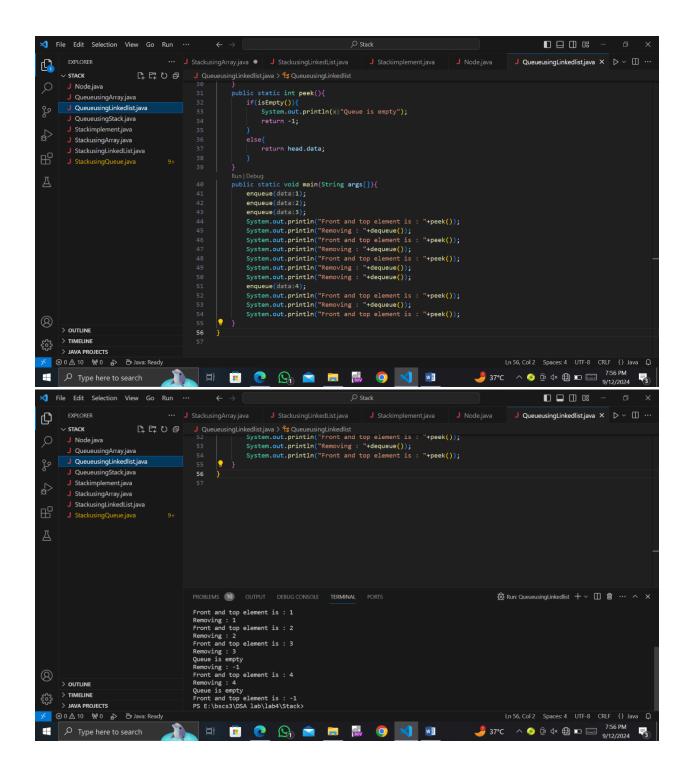
Queue using Array

```
J QueueusingArray.java \times \triangleright \vee \square \cdots
<sub>C</sub>
                       ∨ STACK
    J QueueusingArray.java
                                              private int front;
private int rare;
      J Queueusing Linkedlist.java
      J Queueusing Stack.java
                                              QueueusingArray(int size){
    arr=new int[size];
                                                 rare=0;
count=0;
                                              public boolean isEmpty(){
    return count<arr.length;</pre>
                                                   arr[rare]=data;
rare= (rare+1)%5;
                                              public void dequeue(){
   if(count==0){
    > OUTLINE
> TIMELINE
> JAVA PROJECTS
✓ ⊗ 0 <u>A</u> 11 😭 0 🔊 🖰 Java: Ready
                                     ☐ ✓ Type here to search
```

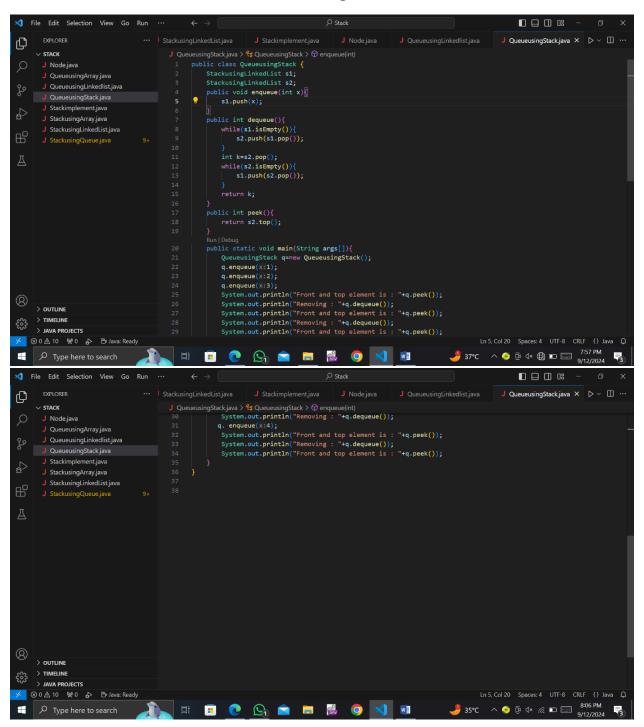


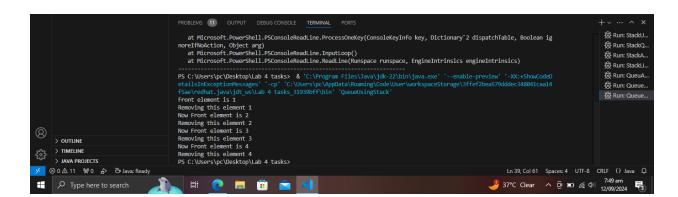
Queue using Linked List





Queue using Stack





THE END