**Assisted Practice: 4.9 Queue**

This section will guide you to:

* Write a program in Java to insert and remove elements in a queue
* Use Eclipse (the popular text editor for Java programs)
* Push code to Git

This lab has three subsections, namely:

* + 1. Creating a new project in Eclipse
    2. Writing the program in Java
    3. Pushing the created files to Git

**Step 4.9.1:** Creating a new project in Eclipse

* Open Eclipse
* Go to File -> New -> Project -> Java Project -> Next
* Type in any project name and click on Finish
* Select your project and go to File -> New -> Class
* Enter **QueueExample** in class name, check the checkbox **public static void main(String args)**, and click on Finish

**Step 4.9.2:** Writing the program in Java

You need to write the program to insert and remove elements in a queue.

import java.util.\*;

public class QueueExample

{

public static void main(String[] args)

{

Queue<String> locationsQueue = new LinkedList<>();

locationsQueue.add("Kolkata");

locationsQueue.add("Patna");

locationsQueue.add("Delhi");

locationsQueue.add("Gurgaon");

locationsQueue.add("Noida");

System.out.println("Queue is : " + locationsQueue);

System.out.println("Head of Queue : " + locationsQueue.peek());

locationsQueue.remove();

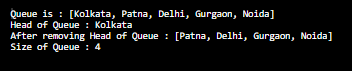
System.out.println("After removing Head of Queue : " + locationsQueue);

System.out.println("Size of Queue : " + locationsQueue.size());

}

}

**Output:**



**Step 4.9.3:** Pushing the created files to Git

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**