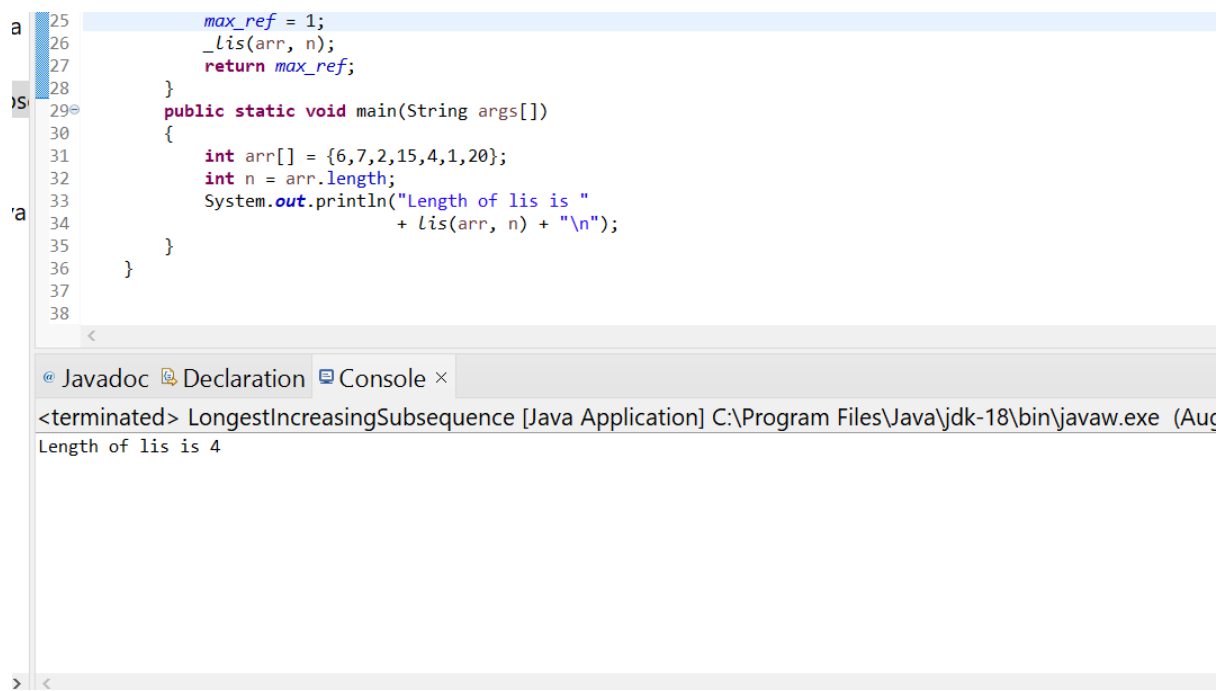


Followings are used in the project

1. **Eclipse**: An IDE to code for the application.
2. **Java**: A programming language.
3. **Git**: To connect and push files from the local system to GitHub
4. **GitHub**: To store the application code and track its versions.
5. **Core Java concepts**: variables, data types, operators, type casting, control statements, class, objects, access specifiers, and core keywords like final, this and static.

Output of the program



The screenshot displays the Eclipse IDE interface. The top pane shows a Java source file with the following code:

```
25     max_ref = 1;
26     _lis(arr, n);
27     return max_ref;
28 }
29 public static void main(String args[])
30 {
31     int arr[] = {6,7,2,15,4,1,20};
32     int n = arr.length;
33     System.out.println("Length of lis is "
34                        + lis(arr, n) + "\n");
35 }
36 }
37
38
```

The bottom pane shows the console output for the application:

```
<terminated> LongestIncreasingSubsequence [Java Application] C:\Program Files\Java\jdk-18\bin\javaw.exe (Aug
Length of lis is 4
```

Steps to push the project on Github

1. Open git bash in folder which is to push on github
2. Initialize this repository using **git init** command
3. Adding all files to staging area using **git add .** command
4. Commit the changes using the **git commit -m "first commit L.I.S."** command.
5. Then use git push command to push the project to Github

GitHub Repository link:

<https://github.com/TShivansh/Practice-project-phase>