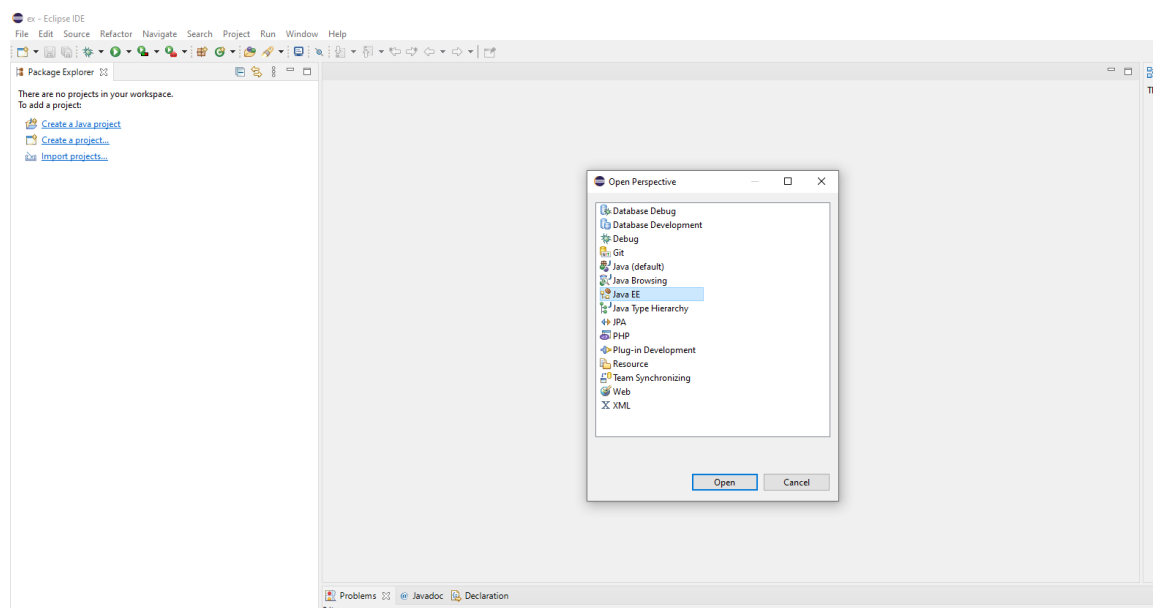
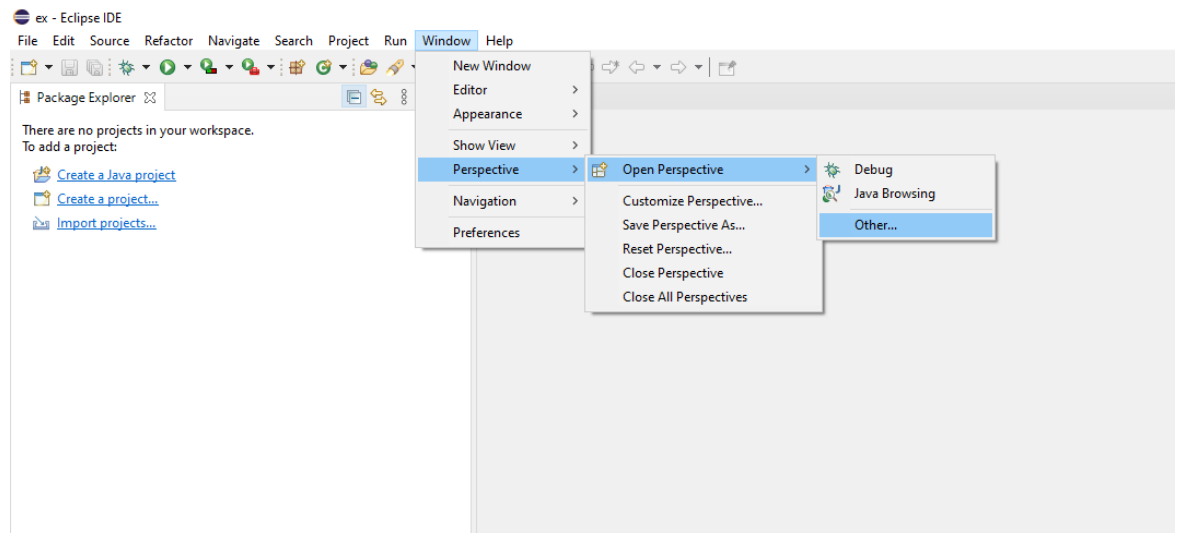


How to run “Boom” Search Engine:

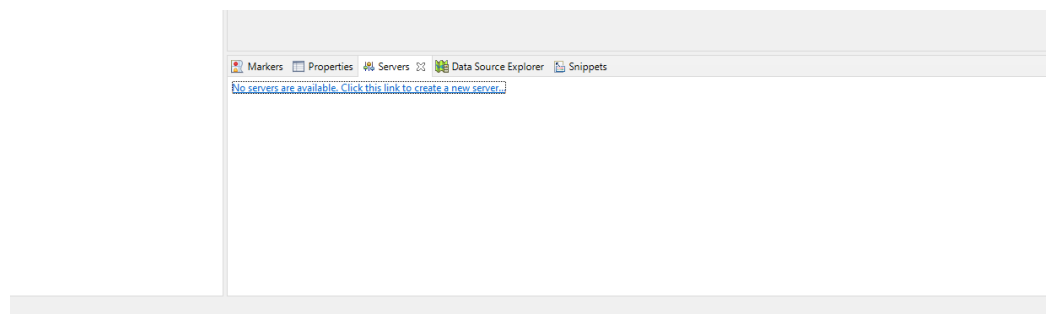
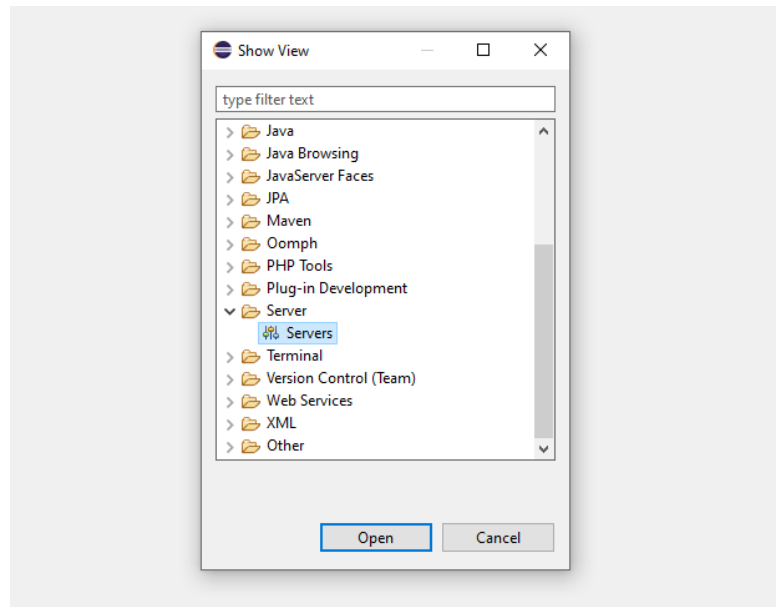
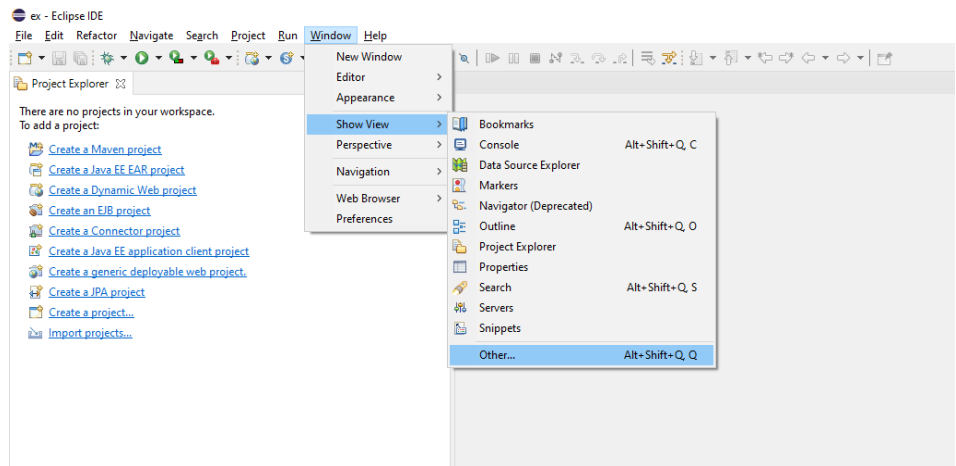
- 1) First you will have to install Eclipse EE version.
- 2) Download Apache Tomcat (Preferred version 8.0)

Download Link: <https://archive.apache.org/dist/tomcat/tomcat-8/v8.0.32/bin/>

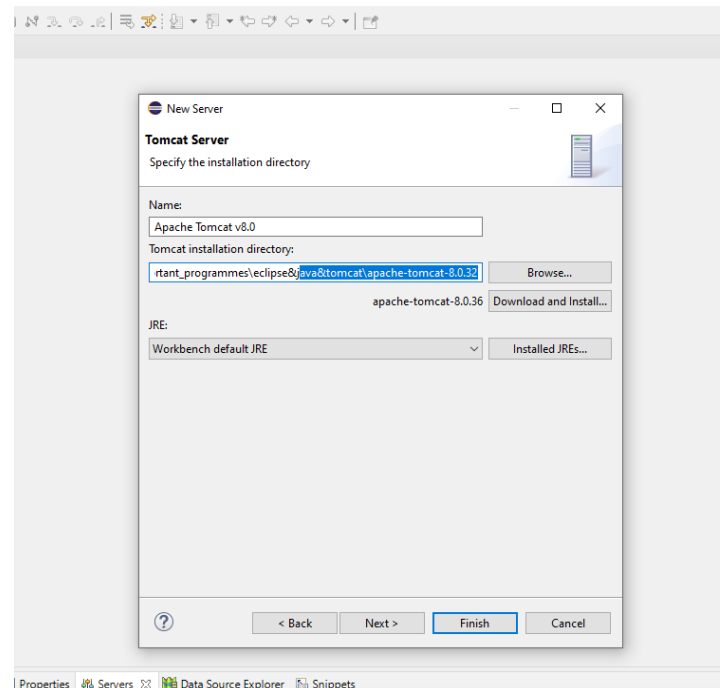
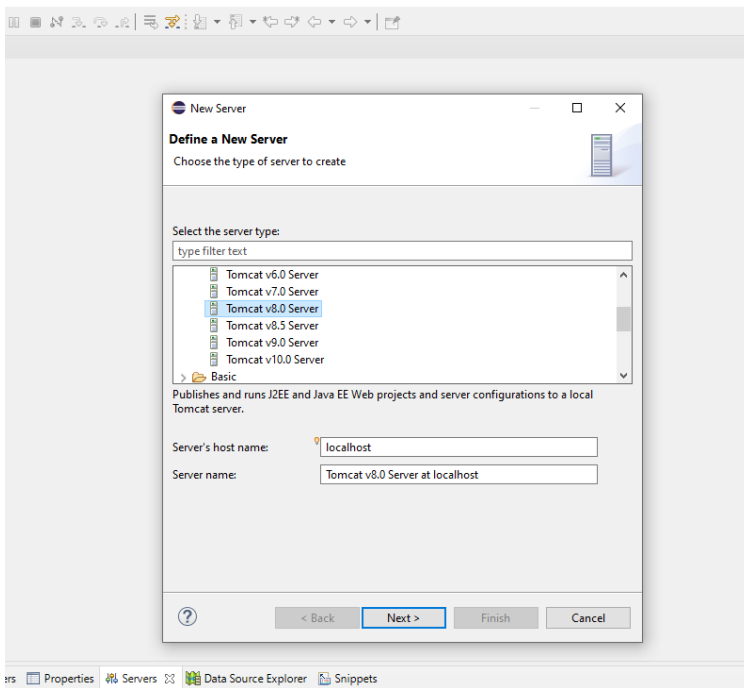
- 3) Make sure that you are in the Java EE perspective:



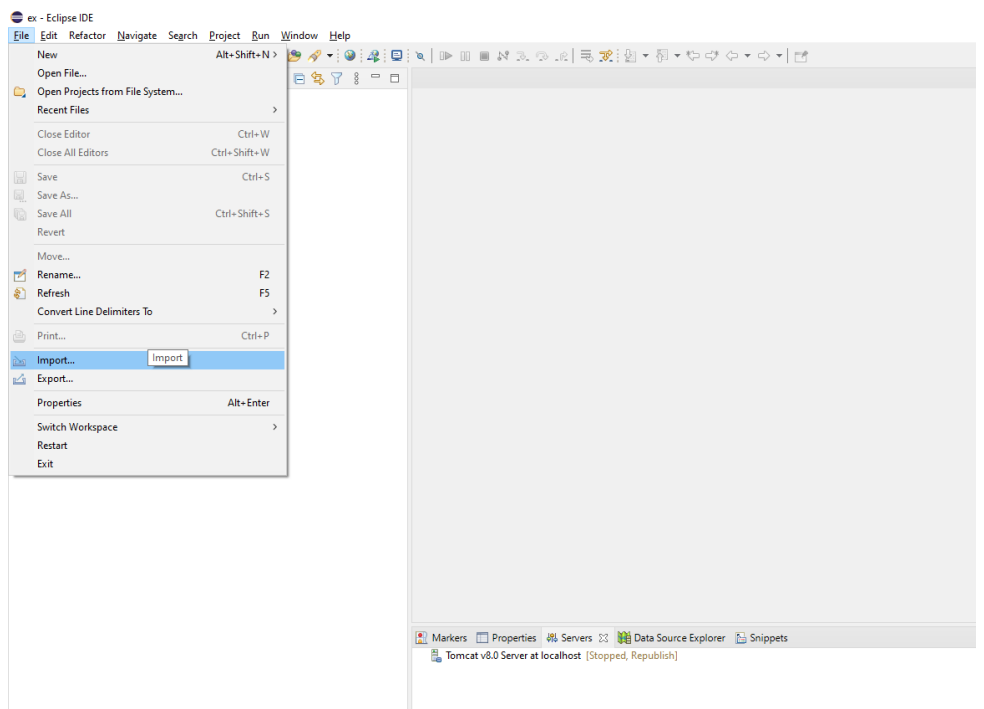
4) Now, we will add Apache Tomcat to our workspace in order to use it:



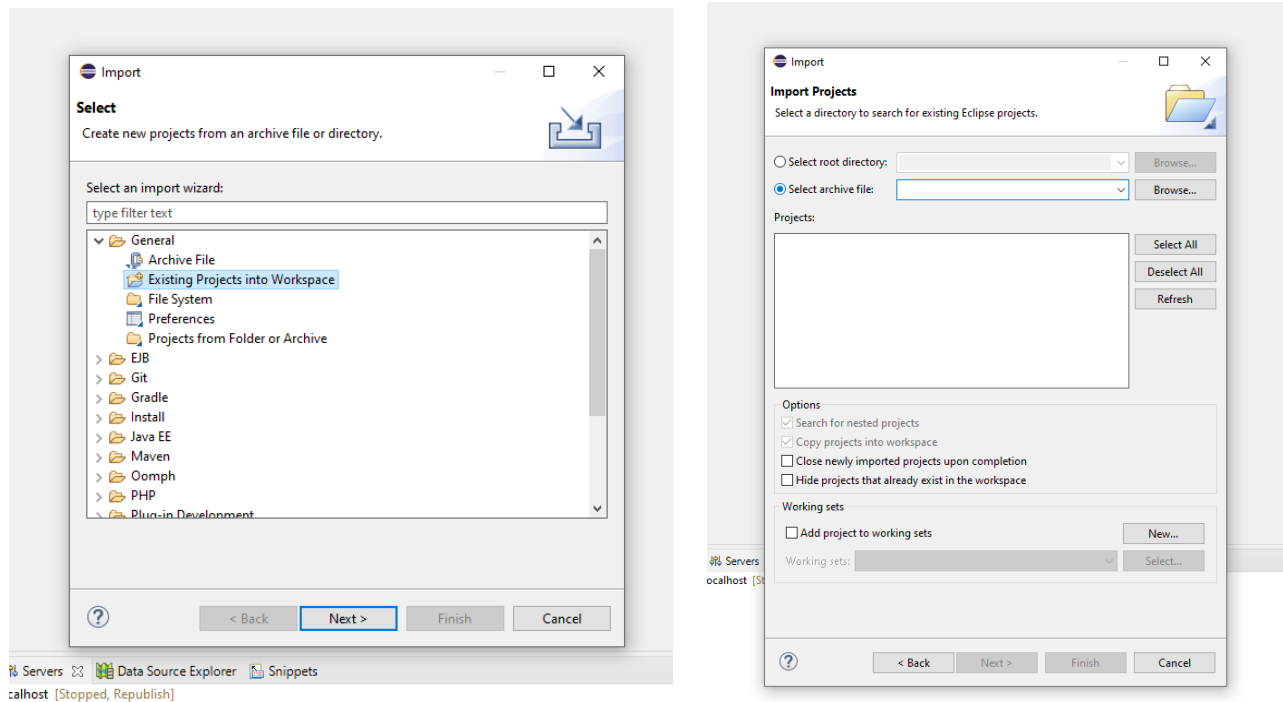
5) Choose your version of Apache Tomcat to be added to your workspace then, enter it's path:



6) Then, import our project file like this:



- 7) Choose: “General -> Existing Projects” and choose “Select archive file” and enter the path of the zipped file “SearchEngine.zip” of our project.



- 8) Change the following code lines to suit your computer:

- 1) In “sedb.java” change the data base connection name to match your database name (here our database name is “sedb”) and the user is “root” and the password is “”. Don’t forget to make your database of type “utf8mb4_general_ci” when you create it.

```

1 package SearchEngine;
2 import java.sql.*;
3 public class sedb {
4
5     public static Connection getConnection()
6     {
7         Connection con = null;
8         try {
9             Class.forName("com.mysql.cj.jdbc.Driver").newInstance();
10            con= DriverManager.getConnection("jdbc:mysql://localhost:3306/sedb","root","");
11            /*if(!con.isClosed())
12                System.out.println("success connected");*/
13        }
14        catch(Exception e)
15        {
16            System.err.println("error" + e);
17        }
18        return con;
19    }
20    public static int getRecordCount (String word)
21    {
22        int count=0;
23    }
24

```

- 2) In "Extract.java"
change the first
part (marked) with
your workspace
path.

```

1 package SearchEngine;
2
3 import java.io.File;
4
5 public class Extract {
6
7     //use HashSet instead of ArrayList because of the performance of contain
8     public static HashSet<String> stoppingWords;
9
10
11     private static void getStoppingWords(){
12         stoppingWords=new HashSet<>();
13         try{
14             File f = new File("F://Eclipse_Workspace/SearchEngine/src/main/webapp/WEB-INF/StoppingWords.txt");
15             Scanner s = new Scanner(f);
16             while (s.hasNextLine()){
17                 String data = s.nextLine();
18                 // System.out.println(data);
19                 stoppingWords.add(data);
20             }
21             s.close();
22         } catch (FileNotFoundException e) {
23             System.out.println("An error occurred.");
24             e.printStackTrace();
25         }
26     }
27
28     public static ArrayList<String> removeStoppingWords(ArrayList<String> listOfWords) throws FileNotFoundException
29     getStoppingWords();
30
31

```

- 9) Now, you are ready to run our Search Engine:

- 1) First, choose your preferred browser.
- 2) Then, run the database server.
- 3) Then, run the file "BOOM.html" as "run on server".

