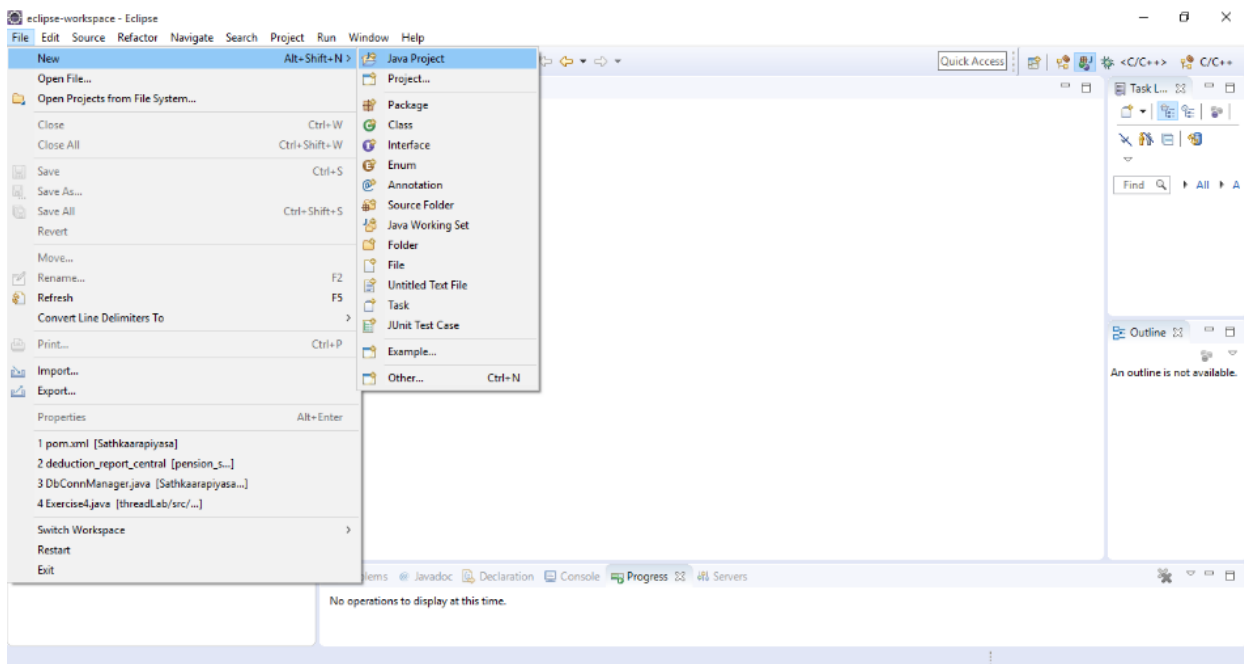


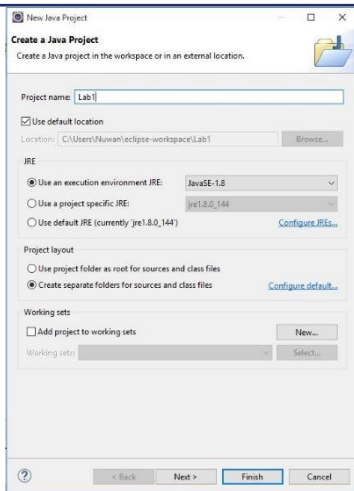
Steps to create a Java Class in Eclipse IDE

Step 1 : Open eclipse

Step 2 : Create a new project

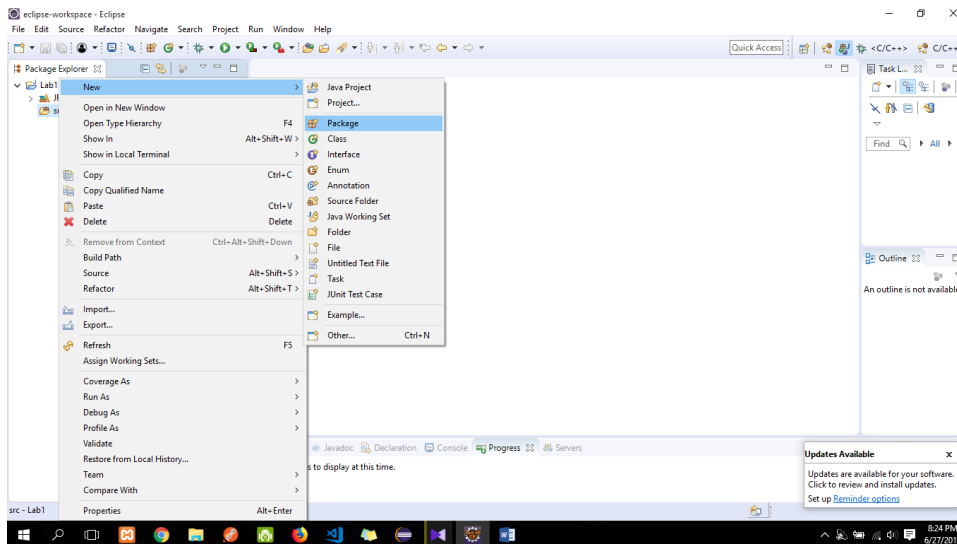
File ➡ New ➡ Java project





Step 3: Create a new Package

Right click on src ➡ New ➡ Package



Step 4: Create a java class within the created package

Right click on created Package ➡ New ➡ Class

Question

- a) Implement Stack class to store characters. Identify the data members required and implement the below methods with the constructor.

Push(), Pop(), Peek(), isEmpty() and isFull()

- b) Develop an application to

i) Insert characters to the stack using push() method.

ii) Remove the content of the stack and display them.

iii) Comment on the order of insertion to the stack and the order of removal from the stack.

- c) Use the stack class created above and check whether a user entered expression is correctly parenthesized.

Ex: $3 + ((6 * 2) - 3)$ \rightarrow valid
 $5 * 6 + (2 - 5)$ \rightarrow not valid