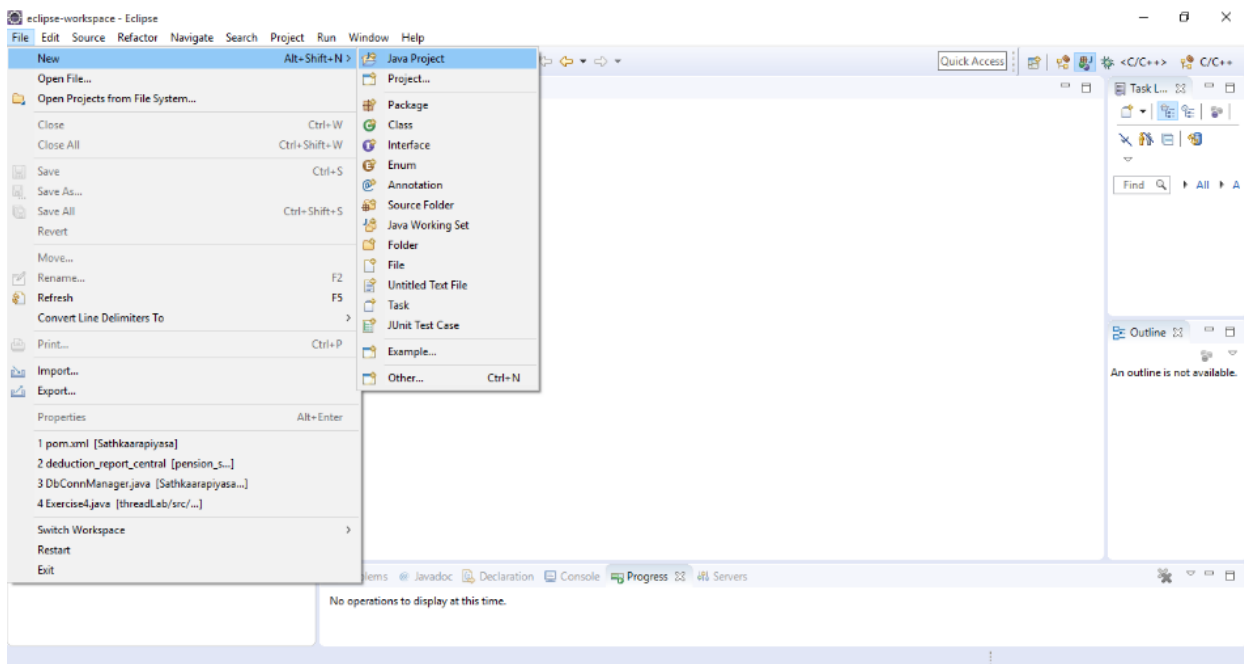


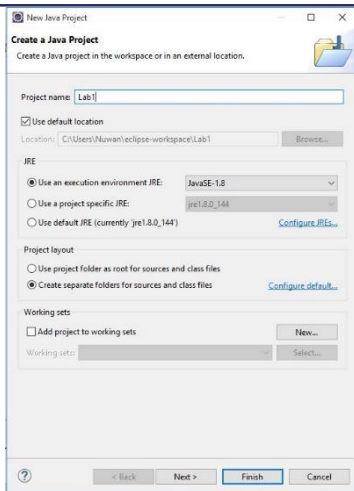
## Steps to create a Java Class in Eclipse IDE

**Step 1 : Open eclipse(Neon or Oxygen)**

**Step 2 : Create a new project**

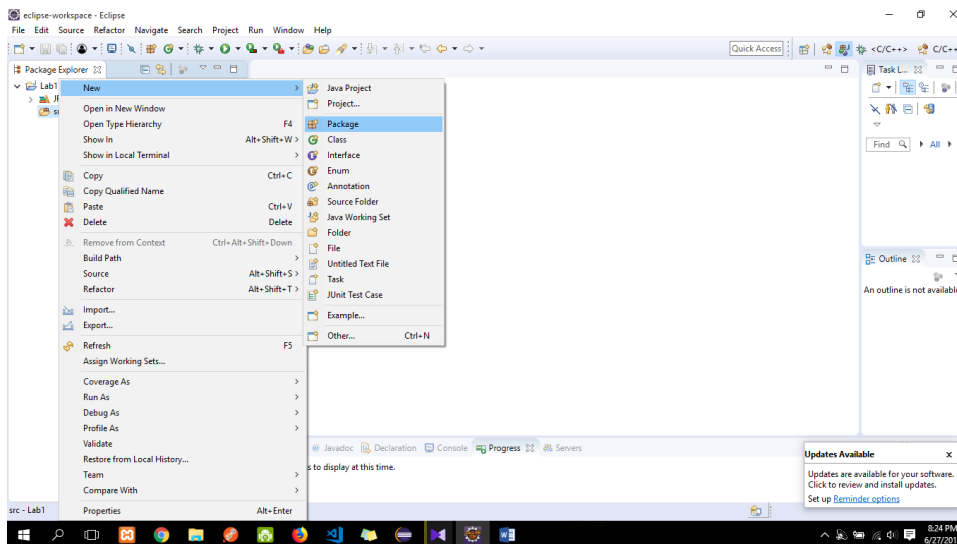
File ➡ New ➡ Java project





**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