**Instructions:**

1. Click on File -> Make a copy

**Include your IPO Chart with your code in Eclipse IDE:** We will discuss and demonstrate this in the computer lab.

# IPO CHART

| **Program name:** | **PrimeNumber** | |
|---|---|---|
| **INPUT** | **PROCESS** | **OUTPUT** |
| Hint: What will the user input? | Hint: What is the program going to do with the input information? | Hint: What will the screen display after user input? |
| Will enter a number they want to check, if it's prime or not. | Will record the user's number and then call the method isPrime and put the user's number as the argument.<br><br>In the method, the boolean variable called prime will be initialized as true. This will serve as the return value and will reflect whether the number is prime(true) or not prime(false).<br><br>Will first check if number is 0 or 1, if so then prime will become false<br><br>If the number is bigger than 1 then it will go through a for loop. The for | Will output the number first entered followed by whether it is prime or not. This is based on an if statement the return value of the method is put in. If true then the number displays prime, if false then displays the number as not prime. |

| | | |
|---|---|---|
| | loop will loop through every number from 2 to half of the number entered. The number entered will then be divided by all these numbers if it is fully divisible by any of these then prime will be set to false.<br><br>The value of prime will then be returned | |