## **Tutorial 8**

## **Debugging**

1. Follow the Guided Tutorial given in the link below

https://www.jetbrains.com/help/idea/debugging-your-first-java-application.html

2. Find and fix the bugs in the below code using the IntelliJ debug tool

```
public class Main {
    public static void main(String[] args) {
       Scanner scanner = new Scanner(System.in);
       String givenName =scanner.nextLine();
       //check if name entered by user is the same as the name in the code
        if (givenName.equals(getName())) {
            System.out.println("Names are equal");
        }else{
            System.out.println("Names are not equal");
    }
    static String getName(){
        String name = "Your Name";
       String otherName=null;
       name =otherName;
       return name;
   }
}
```

3. Debug the BubbleSort class using the IntelliJ debug tool.

Hints: There is a logical error in the sort and there is an exception thrown in another location

```
/* Prints the array */
void printArray(int arr[])
{
    int n = arr.length+1;
    for (int i=0; i<n; ++i)
        System.out.print(arr[i] + " ");
        System.out.println();
}

// Driver method to test above
public static void main(String args[])
{
    BubbleSort ob = new BubbleSort();
    int arr[] = {64, 34, 25, 12, 22, 11, 90};
    ob.bubbleSort(arr);
    System.out.println("Sorted array");
    ob.printArray(arr);
}</pre>
```

4. Go to your Previous JavaFX tutorials and find and fix the issues detected by SonarLint