LAB 2 REPORT

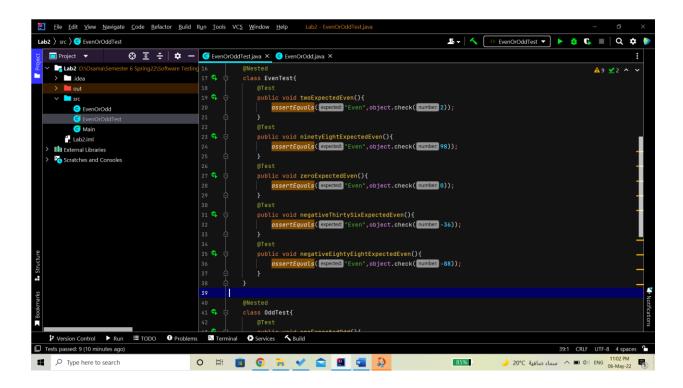
Name: Osama Ayman Mokhtar Amin

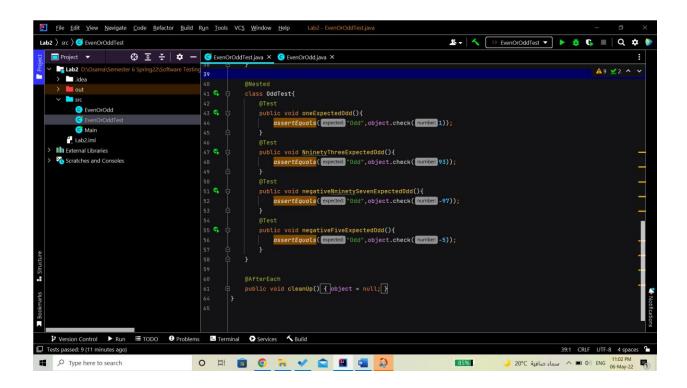
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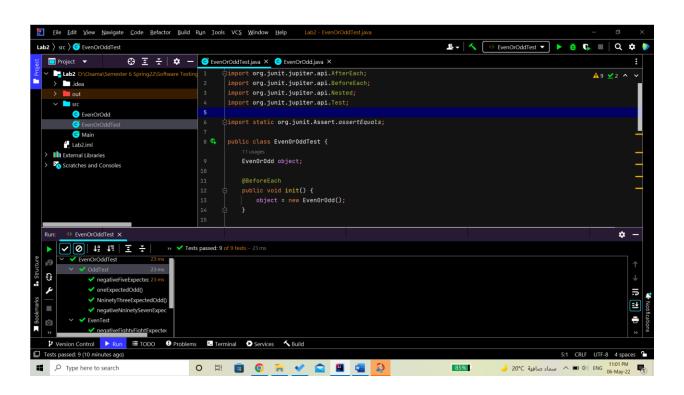
Course Name: Software Testing, Validation, and Verification

Course Code: CSE 338

1. I) Checking Even and Odd Numbers





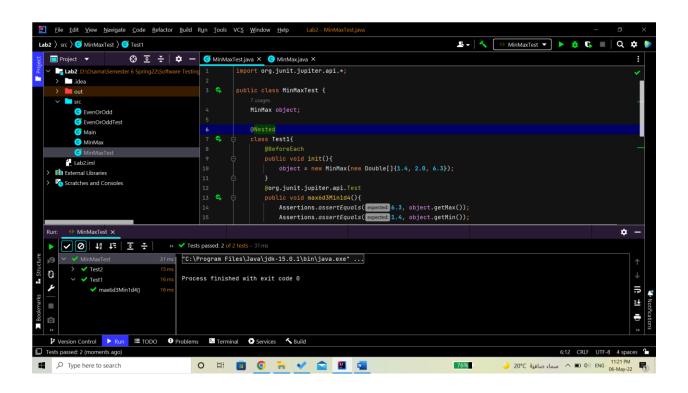


II) Finding the Maximum and Minimum Value in an Array

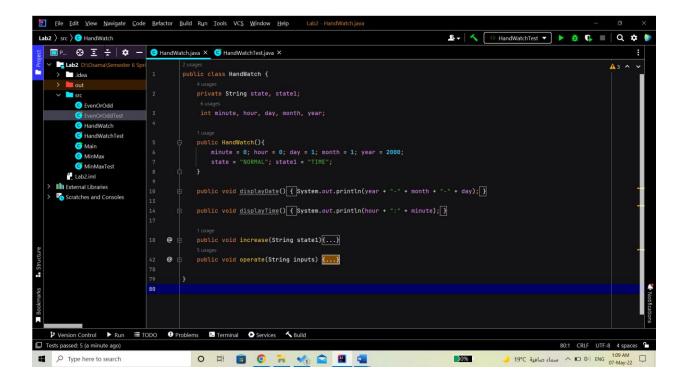
```
Elle Edit View Navigate Code Refactor Build Run Iools VCS Window Help Lab2 - MinMax.java
Lab2 > src >  MinMax >  m getMin
                                                                                                                       1 ▼ | 4 MinMaxTest ▼ ▶ # $ ■ | Q ‡
                          ■ Project ▼
                                                            private Double[] arr;
                                                             public MinMax(Double[] arr){
          © EvenOrOddTest
          C Main
          MinMax
                                                             public double getMax(){
    Double max = Double.MIN_VALUE;
       Lab2.iml
                                                                 for (Double x: arr) {
     Scratches and Consoles
                                                                   \underline{max} = Math.max(x, \underline{max});
                                                             public double getMin(){
                                                                 Double <u>min</u> = Double.MAX_VALUE;
                                                                 for (Double x: arr){
                                                                 return <u>min</u>;

    Version Control
    ▶ Run
    I TODO
    9 Problems
    I Terminal
    ♦ Services
    ♦ Build

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2) Question 3 in Sheet 3



```
C HandWatch.java 🗡 🌀 HandWatchTest.java 🗙
             public void increase(String state1){
    switch (state1){
                      case "MINUTE":
                          if (minute < 59) minute++;</pre>
                          else minute = 0;
                          break;
                          if (hour < 23) hour++;</pre>
                          else hour = 0;
                          break;
                          if (day < 31) day++;
                          else day = 1;
                          break;
                          if (month < 11) month++;</pre>
                          else month = 1;
                          break;
                          if (year < 2999 ) year++;
                          else year = 2000;
```

```
C HandWatch.java X C HandWatchTest.java X
        | import org.junit.jupiter.api.AfterEach;
         import org.junit.jupiter.api.BeforeEach;
         import org.junit.jupiter.api.Nested;
        import static org.junit.Assert.assertEquals;
         public class HandWatchTest {
             HandWatch object;
             class Test{
                 @BeforeEach
                 public void init() { object = new HandWatch(); }
                 @org.junit.jupiter.api.Test
20 😘
                     object.operate(inputs: "cb");
                     assertEquals( expected: 1, object.minute);
                 @org.junit.jupiter.api.Test
                 public void ExpectedIncHourTo1(){
                     object.operate(inputs: "cab");
                     assertEquals( expected: 1, object.hour );
```

```
☐ HandWatch.java × ☐ HandWatchTest.java ×
                      ussertEquats ( expected 1, object.noor );
                 @org.junit.jupiter.api.Test
                 public void ExpectedIncDayTo2(){
                      object.operate( inputs: "caab");
                      assertEquals( expected: 2, object.day );
                 @org.junit.jupiter.api.Test
                 public void ExpectedIncMonthTo2(){
   G
                      object.operate( inputs: "caaab");
                      assertEquals( expected: 2, object.month );
                 @org.junit.jupiter.api.Test
   4
                 public void ExpectedIncYearTo2001(){
                      object.operate( inputs: "caaaab");
                      assertEquals( expected: 2001, object.year );
                 @AfterEach
                 public void cleanUp() { object = null; }
```

