LAB 3 REPORT
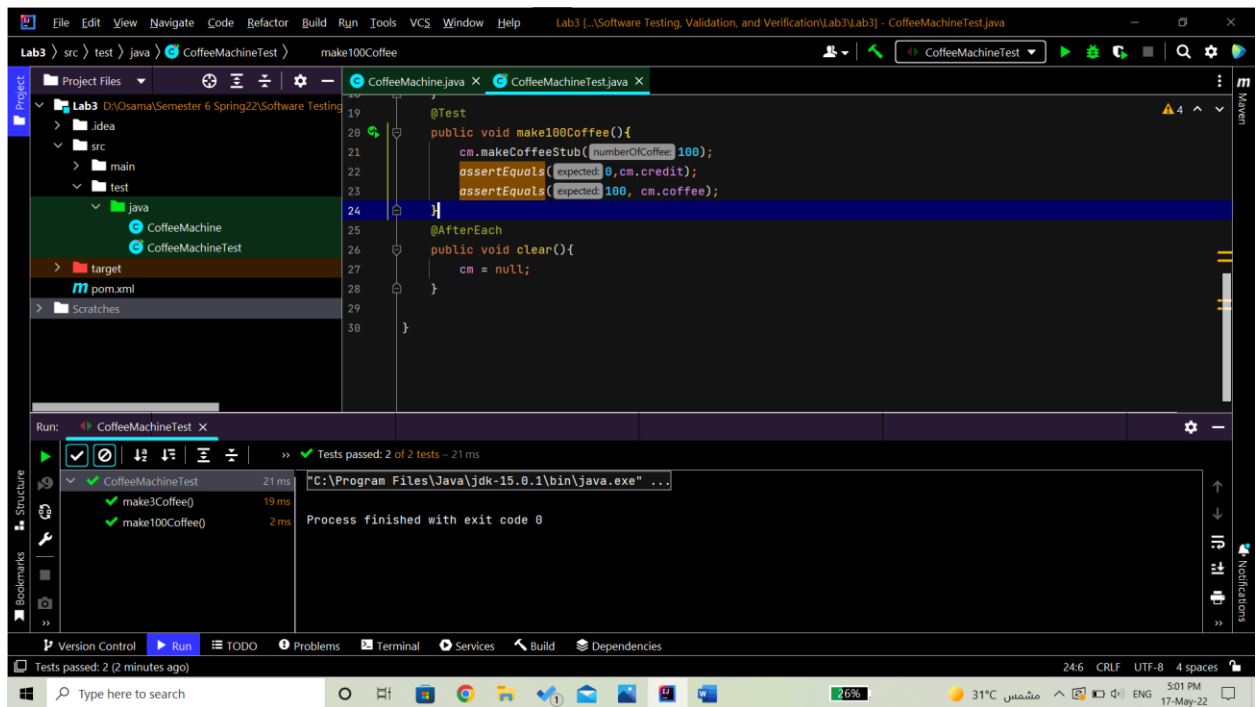
Name: Osama Ayman Mokhtar Amin

ID: 19P1609

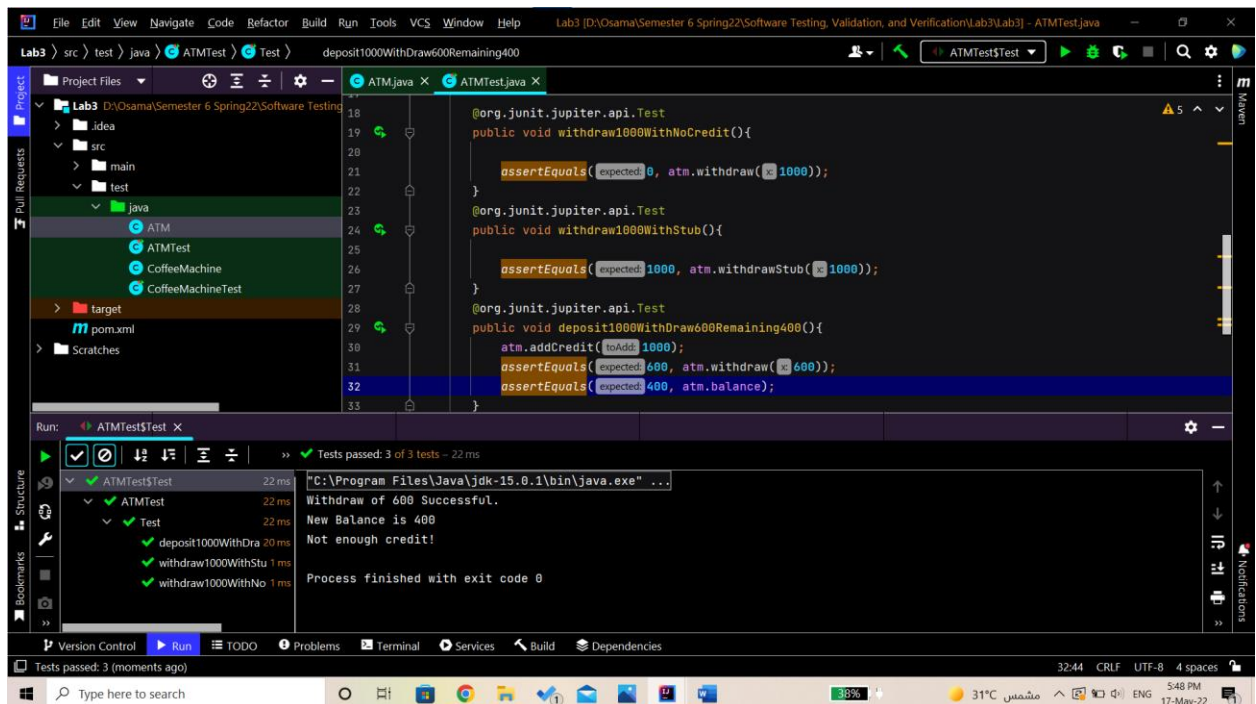Course Name: Software Testing, Validation, and Verification

Course Code: CSE 338

1) Coffee Machine


```java
19
20        @Test
21        public void make100Coffee(){
22            cm.makeCoffeeStub( numberOfCoffee: 100);
23            assertEquals( expected: 0,cm.credit);
24            assertEquals( expected: 100, cm.coffee);
25        }
26        @AfterEach
27        public void clear(){
28            cm = null;
29        }
30
    }
```

Run: CoffeeMachineTest

Tests passed: 2 of 2 tests – 21 ms

```
CoffeeMachineTest          21 ms      "C:\Program Files\Java\jdk-15.0.1\bin\java.exe" ...
   make3Coffee()           19 ms
   make100Coffee()          2 ms      Process finished with exit code 0
```

2) ATM Machine


```java
18        @org.junit.jupiter.api.Test
19        public void withdraw1000WithNoCredit(){
20
21            assertEquals( expected: 0, atm.withdraw( x: 1000));
22        }
23        @org.junit.jupiter.api.Test
24        public void withdraw1000WithStub(){
25
26            assertEquals( expected: 1000, atm.withdrawStub( x: 1000));
27        }
28        @org.junit.jupiter.api.Test
29        public void deposit1000WithDraw600Remaining400(){
30            atm.addCredit( toAdd: 1000);
31            assertEquals( expected: 600, atm.withdraw( x: 600));
32            assertEquals( expected: 400, atm.balance);
33        }
```

Run: ATMTest$Test

Tests passed: 3 of 3 tests – 22 ms

```
ATMTest$Test               22 ms      "C:\Program Files\Java\jdk-15.0.1\bin\java.exe" ...
   ATMTest                 22 ms      Withdraw of 600 Successful.
      Test                 22 ms      New Balance is 400
         deposit1000WithDra 20 ms     Not enough credit!
         withdraw1000WithStu 1 ms
         withdraw1000WithNo  1 ms     Process finished with exit code 0
```

3) Digital Watch