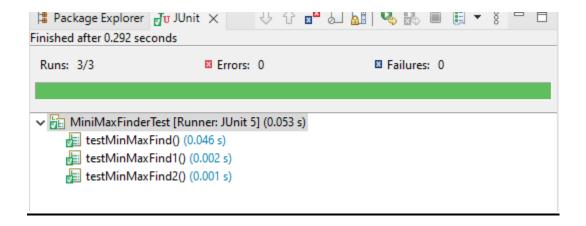
Assignments on Junit:

```
1.
package junitpractice;
import java.lang.reflect.Array;
import java.util.Arrays;
//create a class of MiniMaxFinder
public class MiniMaxFinder {
             public int[] arr(int [] numbers) {
                    Arrays.sort(numbers);
                    int [] arr1= {numbers[0], numbers[numbers.length-1]};
                    return arr1;
             }
}
//create a Junit test case of MiniMaxFind
package junitpractice;
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.Test;
class MiniMaxFinderTest {
      @Test
      void testMinMaxFind() {
             MiniMaxFinder mnf = new MiniMaxFinder();
             int expedted[] = new int[] {3,56};
             assertArrayEquals(expedted, mnf.arr(new int[]
{56,34,7,3,54,3,34,34,53}));
}
      @Test
      void testMinMaxFind1() {
             MiniMaxFinder mnf1 = new MiniMaxFinder();
             int expedted1[] = new int[] {0,99};
             assertArrayEquals(expedted1, mnf1.arr(new int[]
{30,1,10,25,56,99,87,45,0}));
      }
      @Test
      void testMinMaxFind2() {
             MiniMaxFinder mnf2 = new MiniMaxFinder();
```

Output:



```
3.
//create a BankAccount Class
package junitpractice;
import javax.naming.InsufficientResourcesException;
public class BankAccount {
             int a;
             int BankAccountBalance = 20000;
      public String Withdraw(int a) throws InsufficientFundException {
             if(a< BankAccountBalance) {</pre>
                    return ("wait for a momment");
             else
                    throw new InsufficientFundException("Insufficient Funds");
      }
}
//create a BankAcoountTest Class
package junitpractice;
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertThrows;
import static org.junit.jupiter.api.Assertions.*;
import javax.naming.InsufficientResourcesException;
import org.junit.jupiter.api.Test;
class BankAccountTest {
      @Test
      void testwithdraw() {
             BankAccount a = new BankAccount();
             assertThrows(InsufficientFundException.class, ()-> a.Withdraw(20000), "An
Exception may be occurred" );
      }
      @Test
      void testwithdraw1() throws InsufficientFundException {
             BankAccount a1 = new BankAccount();
             String expected = "wait for a momment";
             assertEquals(expected, a1.Withdraw(19999));
      }
}
```

```
package junitpractice;
//create a javaUnit project
public class MyJuintProject {
      public int add (int a, int b) {
                    return a+b;
      public int subtraction (int a, int b) {
             return a-b;
      }
}
//create a java unit test class
package junitpractice;
import static org.junit.jupiter.api.Assertions.*;
import org.junit.jupiter.api.AfterAll;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeAll;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
class MyClassCase {
      MyJuintProject junit;
      @BeforeAll
      static void beforeAllInit() {
             System.out.println("this nedds to run before all");
      }
      @AfterAll
      static void afterAll() {
             System.out.println("We are at the end of the Programming");
      }
      @BeforeEach
      void init() {
              junit = new MyJuintProject();
      @AfterEach
      void afterEach() {
             System.out.println("The code run successfully");
      }
      @Test
      void addtest() {
             int result = junit.add(10, 20);
             assertEquals(30, result);
      }
      @Test
```

```
void subtracttest() {
    int result = junit.subtraction(10, 9);
    assertEquals(1, result);
}
```

Output:

<terminated> Rerun MyClassCase [JUnit] C:\Program File:
The code run successfully
The code run successfully
We are at the end of the Programming