SD2 - Worksheet 2 - 6%



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Course:	BSCH/BSCO/EXCH		Stage/year:	2		
Subject:	Software Development 2					
Study Mode:	Full time	$ \mathfrak{A} $		Part-time		
Lecturer Name:	Gemma Deery					
Assignment Title:	Worksheet 2					
Date due:	05.03.2025					
Date submitted:	05.03.2025					
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Repo Link:

Tasks:

Part Two

```
package griffith;
  public class Conversions {
      public double euroToDollar(double euro)
40
          return 0.0;
      public double dollarToEuro(double dollar)
80
          return 0.0;
20
      public int stringToInteger (String val)
.3
          return 0;
60
      public String integerToString (int val)
8.
          return "";
9
00
      public String switchCase()
  }
```

Part Three

Euro to Dollar

```
@Test
     public void testEuroToDollar() {
          Conversions conv = new Conversions();
          assertEquals(1.08, conv.euroToDollar(1), 0.01);
          assertEquals(5.40, conv.euroToDollar(5), 0.01);
          assertEquals(0.00, conv.euroToDollar(0), 0.01);
     }
 }
Runs: 1/1

■ Errors: 0

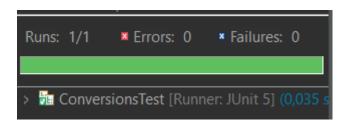
                        ▼ Failures: 1
ConversionsTest [Runner: JUnit 5] (0,08
    🔚 testEuroToDollar() (0,085 s)
 public double euroToDollar(double euro) {
     return euro * 1.08;
Runs: 1/1

■ Errors: 0

                        ▼ Failures: 0
ConversionsTest [Runner: JUnit 5] (0,03)
```

Dollar To Euro

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String to Integer

```
@Test
public void testStringToInteger() {
    Conversions conv = new Conversions();
    assertEquals(123, conv.stringToInteger("123"));
    assertEquals(-456, conv.stringToInteger("-456"));
    assertThrows(NumberFormatException.class, () -> conv.stringToInteger("abc"));
}
```



```
@Test
public void testIntegerToString() {
     Conversions conv = new Conversions();
     assertEquals("123", conv.integerToString(123));
     assertEquals("-456", conv.integerToString(-456));
     assertEquals("0", conv.integerToString(0));
 }
Runs: 1/1

■ Errors: 0

                        ▼ Failures: 1

    E ConversionsTest [Runner: JUnit 5] (0,036

    🔚 testInteaerToStrina() (0.036 s)
public String integerToString(int val) {
    return String.valueOf(val);
}
Runs: 1/1
            Errors: 0 * Failures: 0
> Image: ConversionsTest [Runner: JUnit 5] (0,029)
```

Switch Case

```
public void testSwitchCase() {
    Conversions conv = new Conversions();
    assertEquals("hELLO", conv.switchCase("Hello"));
    assertEquals("wORLD", conv.switchCase("World"));
    assertEquals("123", conv.switchCase("123"));
}
```

```
Runs: 1/1 ■ Errors: 0 ■ Failures: 1

V ■ ConversionsTest [Runner: JUnit 5] (0,044 s

testSwitchCase() (0,043 s)
```

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```
public String switchCase(String input) {
    StringBuilder result = new StringBuilder();
    for (char c : input.toCharArray()) {
        if (Character.isUpperCase(c)) {
            result.append(Character.toLowerCase(c));
        } else if (Character.isLowerCase(c)) {
            result.append(Character.toUpperCase(c));
        } else {
            result.append(c);
        }
    }
    return result.toString();
}
```

