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Faculty:	Computing Science			
Course:	BSCH/BSCO/EXCH		Stage/year:	2
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Lecturer Name:	Gemma Deery			
Assignment Title:	Worksheet 2			
Date due:	5/3/25			
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Repo Link: https://github.com/romanpolishchuk-griffith-college/WorksheetTwo_3135838

Task One:

Part one

Create Package and Project files

Part two

Add Conversions class stab methods

```
1 package griffith;
2
3 public class conversions {
4    public double euroToDollar(double euro) {
5        return 0.0;
6    }
7    public double dollarToEuro(double dollar){
8        return 0.0;
9    }
10    public int stringToInteger (String val){
11        return 0;
12    }
13    public String integerToString (int val){
14        return "";
15    }
16    public String switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the public string switchCase() // change uppercase to lowercase and vice version of the pu
```

Part three

Add ConversionsTest class stab methods

Implement euroToDollarTest method

```
@Test
void euroToDollarTest() {
    //Create Conversions class instance
    Conversions conversions = new Conversions();

    //Test euro is 10
    assertEquals(10.48, conversions.euroToDollar(10));
    //Test euro is 5
    assertEquals(5.24, conversions.euroToDollar(5));
    //Test euro is 0
    assertEquals(0, conversions.euroToDollar(0));
    //Test euro is -999
    assertEquals(0, conversions.euroToDollar(-999));
}
```

Test fails

Implement euroToDollar method

```
public double euroToDollar(double euro) {
    return Math.max(0, euro * 1.048);
}
```



Implement dollarToEuroTest method

```
@Test
void dollarToEuroTest() {
    //Create Conversions class instance
    Conversions conversions = new Conversions();

    //Test dollar is 9.432
    assertEquals(9, conversions.dollarToEuro(9.432));
    //Test dollar is 102.704
    assertEquals(98, conversions.dollarToEuro(102.704));
    //Test dollar is 0
    assertEquals(0, conversions.dollarToEuro(0));
    //Test dollar is -999
    assertEquals(0, conversions.dollarToEuro(-999));
}
```

Test fails



Implement dollarToEuro method

```
public double dollarToEuro(double dollar){
    return Math.round(Math.max(0, dollar * 0.954198473282));
}
```



Implement stringToIntegerTest method

```
@Test
void stringToIntegerTest() {
    //Create Conversions class instance
    Conversions conversions = new Conversions();

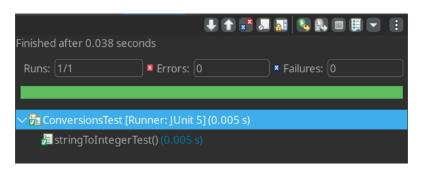
    //Test string is 9
    assertEquals(9, conversions.stringToInteger("9"));
    //Test string is 14.55
    assertEquals(14, conversions.stringToInteger("14.55"));
    //Test string is 0
    assertEquals(0, conversions.stringToInteger("0"));
    //Test string is -999
    assertEquals(-999, conversions.stringToInteger("-999"));
    //Test string is null
    assertEquals(0, conversions.stringToInteger(null));
}
```

Test fails



Implement stringToInteger method

```
public int stringToInteger (String val){
    if(val == null) {
        return 0;
    }
    return (int)Double.parseDouble(val);
}
```



Implement integerToStringTest method

```
@Test
void integerToStringTest() {
    //Create Conversions class instance
    Conversions conversions = new Conversions();

    //Test int is 10
    assertEquals("10", conversions.integerToString(10));
    //Test int is 99
    assertEquals("99", conversions.integerToString(99));
    //Test int is 0
    assertEquals("0", conversions.integerToString(0));
    //Test int is -1000
    assertEquals("-1000", conversions.integerToString(-1000));
}
```

Test fails



Implement integerToString method

```
public String integerToString (int val){
    return String.valueOf(val);
}
```



Implement switchCaseTest method

Test fails



Implement switchCase method



All tests pass

