

Jarron Bailey

9/18/2017

ITMD 455

## Homework 2

homework2

Meal Cost \$	102
Tax Percentage %	9.5
Tip Percentage %	18
Total Meal Cost \$	131.79

CALULATE

## Java

```
package com.example.bailey.homework2;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;
```

```

import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.EditText;

import java.text.DecimalFormat;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {
    private Button btncalculate;
    private EditText ettotalcost, ettaxpercentage, ettippercentage, etmealcost;
    private TextView tvtotalcost, tvtaxpercentage, tvtippercentage, tvmealcost;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        init();
    }

    @Override
    public void onClick(View v) {
        DecimalFormat precision = new DecimalFormat("0.00");
        String smealcost = etmealcost.getText().toString();
        String stippercentage = ettippercentage.getText().toString();
        String staxpercentage = ettaxpercentage.getText().toString();

        double valmealcost = Double.parseDouble(smealcost);
        double valtippercentage = Double.parseDouble(stippercentage);
        double valtaxpercentage = Double.parseDouble(staxpercentage);
        switch (v.getId()) {
            case R.id.btnCalculate:
                double taxed = (valmealcost + (valmealcost*(valtaxpercentage/100)));
//111.69
                double tipped = (taxed*(valtippercentage/100));
                valmealcost = tipped + taxed;
                String formattedmeal = precision.format(valmealcost);
                ettotalcost.setText(formattedmeal);
            }
        }

    private void init() {
        btncalculate = (Button) findViewById(R.id.btnCalculate);
        ettotalcost = (EditText) findViewById(R.id.etTotalCost);
        ettaxpercentage = (EditText) findViewById(R.id.etTaxPercentage);
        ettippercentage = (EditText) findViewById(R.id.etTipPercentage);
        etmealcost = (EditText) findViewById(R.id.etMealCost);
        tvtotalcost = (TextView) findViewById(R.id.tvTotalCost);
        tvtaxpercentage = (TextView) findViewById(R.id.tvTaxPercentage);
        tvtippercentage = (TextView) findViewById(R.id.tvTaxPercentage);
        tvmealcost = (TextView) findViewById(R.id.tvMealCost);

        btncalculate.setOnClickListener(this);
    }
}

```

## XML

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context="com.example.bailey.homework2.MainActivity"
tools:layout_editor_absoluteY="81dp"
tools:layout_editor_absoluteX="0dp">

    <TextView
        android:id="@+id/tvTipPercentage"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="8dp"
        android:layout_marginTop="50dp"
        android:text="Tip Percentage %"
        android:textSize="24sp"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toLeftOf="@+id/guideline3"
        app:layout_constraintTop_toBottomOf="@+id/tvTaxPercentage"
        android:layout_marginStart="8dp" />

    <EditText
        android:id="@+id/etTotalCost"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="0dp"
        android:layout_marginRight="8dp"
        android:ems="10"
        android:hint="0"
        android:inputType="textPersonName"
        app:layout_constraintBaseline_toBaselineOf="@+id/tvTotalCost"
        app:layout_constraintLeft_toLeftOf="@+id/guideline3"
        app:layout_constraintRight_toRightOf="parent" />

    <EditText
        android:id="@+id/etTipPercentage"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginEnd="6dp"
        android:layout_marginLeft="0dp"
        android:layout_marginRight="8dp"
        android:ems="10"
        android:hint="0"
        android:inputType="textPersonName"
        app:layout_constraintBaseline_toBaselineOf="@+id/tvTipPercentage"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintLeft_toLeftOf="@+id/guideline3"
        app:layout_constraintRight_toRightOf="parent" />

    <EditText
        android:id="@+id/etTaxPercentage"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginEnd="16dp"
        android:layout_marginLeft="0dp"
        android:layout_marginRight="8dp"
        android:ems="10"
        android:hint="0"
        android:inputType="textPersonName"

```

```

        app:layout_constraintBaseline_toBaselineOf="@+id/tvTaxPercentage"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="@+id/guideline3"
        app:layout_constraintRight_toRightOf="parent" />

<TextView
    android:id="@+id/tvTaxPercentage"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="50dp"
    android:text="Tax Percentage %"
    android:textSize="24sp"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toLeftOf="@+id/guideline3"
    app:layout_constraintTop_toBottomOf="@+id/tvMealCost"
    android:layout_marginStart="8dp" />

<TextView
    android:id="@+id/tvTotalCost"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:text="Total Meal Cost $"
    android:textSize="24sp"
    android:layout_marginTop="50dp"
    app:layout_constraintTop_toBottomOf="@+id/tvTipPercentage"
    app:layout_constraintRight_toLeftOf="@+id/guideline3"
    android:layout_marginRight="0dp"
    android:layout_marginLeft="8dp"
    app:layout_constraintLeft_toLeftOf="parent" />

<TextView
    android:id="@+id/tvMealCost"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="32dp"
    android:layout_marginTop="8dp"
    android:text="Meal Cost $"
    android:textSize="24sp"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintRight_toLeftOf="@+id/guideline3"
    android:layout_marginRight="7dp"
    android:layout_marginEnd="8dp"
    android:layout_marginLeft="0dp"
    app:layout_constraintLeft_toLeftOf="parent" />

<EditText
    android:id="@+id/etMealCost"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginEnd="16dp"
    android:layout_marginLeft="0dp"
    android:layout_marginRight="8dp"
    android:ems="10"
    android:hint="0"
    android:inputType="textPersonName"
    app:layout_constraintBaseline_toBaselineOf="@+id/tvMealCost"
    app:layout_constraintHorizontal_bias="0.3"
    app:layout_constraintLeft_toLeftOf="@+id/guideline3"
    app:layout_constraintRight_toRightOf="parent" />

<Button

```

```
    android:id="@+id/btnCalculate"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginRight="8dp"
    android:layout_marginTop="0dp"
    android:onClick="onClick"
    android:text="CALULATE"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toBottomOf="parent"
    app:layout_constraintVertical_bias="0.95" />
```

```
<android.support.constraint.Guideline
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/guideline3"
    android:orientation="vertical"
    app:layout_constraintGuide_percent="0.61"
    tools:layout_editor_absoluteY="0dp"
    tools:layout_editor_absoluteX="234dp" />
```

```
</android.support.constraint.ConstraintLayout>
```