

IT 342

HW-2

By

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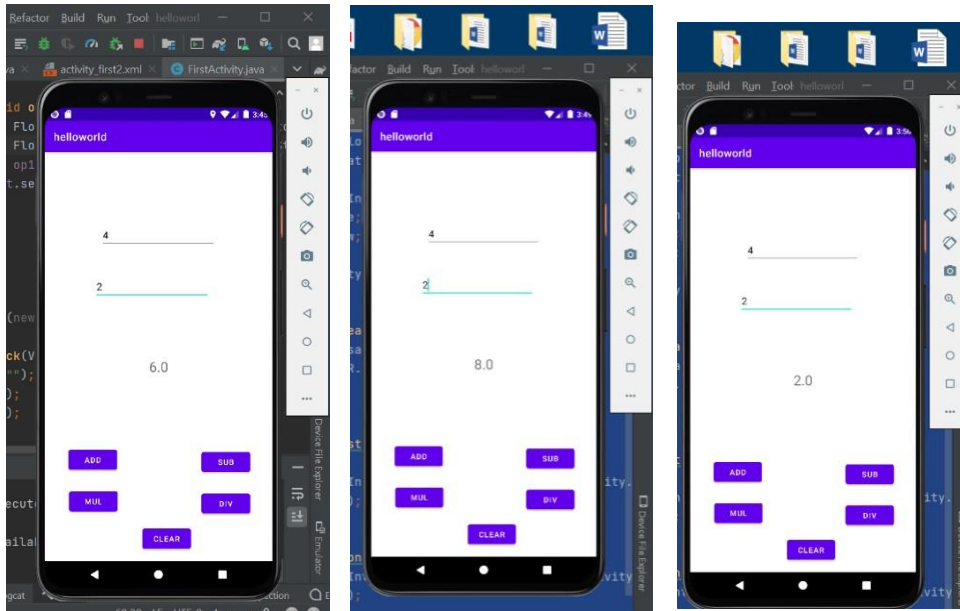
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Firstactivity.java

```
package com.example.helloworld;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class FirstActivity extends AppCompatActivity {
    private EditText firstNum, secNum;
    private Button ba, bs, bm, bd, bc;
    private TextView result;
    private float op1, op2, op3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_first2);
        firstNum = (EditText) findViewById(R.id.num1);
        secNum = (EditText) findViewById(R.id.num2);
        ba = (Button) findViewById(R.id.addbtn);
        bs = (Button) findViewById(R.id.subbtn);
        bm = (Button) findViewById(R.id.multbtn);
        bd = (Button) findViewById(R.id.divbtn);
        bc = (Button) findViewById(R.id.clrbtn);
        result = (TextView) findViewById(R.id.result);

        ba.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                op1 = Float.parseFloat(firstNum.getText().toString());
                op2 = Float.parseFloat(secNum.getText().toString());
```

```

        op3 = op1 + op2;
        result.setText(Float.toString(op3));

    }

});
bs.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        op1 = Float.parseFloat(firstNum.getText().toString());
        op2 = Float.parseFloat(secNum.getText().toString());
        op3 = op1 - op2;
        result.setText(Float.toString(op3));

    }

});
bm.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        op1 = Float.parseFloat(firstNum.getText().toString());
        op2 = Float.parseFloat(secNum.getText().toString());
        op3 = op1 * op2;
        result.setText(Float.toString(op3));

    }

});
bd.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        op1 = Float.parseFloat(firstNum.getText().toString());
        op2 = Float.parseFloat(secNum.getText().toString());
        op3 = op1 / op2;
        result.setText(Float.toString(op3));

    }

});

bc.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        firstNum.setText("");
        secNum.setText("");
        result.setText("");
    }
});

```

```
}  
}
```

activity.first.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.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=".FirstActivity">  
  
    <EditText  
        android:id="@+id/num1"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginTop="128dp"  
        android:ems="10"  
        android:inputType="number"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.497"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent" />  
  
    <EditText  
        android:id="@+id/num2"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginTop="48dp"  
        android:layout_marginEnd="11dp"  
        android:layout_marginRight="11dp"  
        android:ems="10"  
        android:inputType="number"  
        app:layout_constraintEnd_toEndOf="@+id/num1"  
        app:layout_constraintTop_toBottomOf="@+id/num1" />  
  
    <TextView  
        android:id="@+id/result"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginTop="105dp"  
        android:text="Result"  
        android:textSize="25dp"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toBottomOf="@+id/num2" />  
  
    <Button  
        android:id="@+id/addbtn"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginTop="128dp"  
        android:text="Add"  
        app:layout_constraintEnd_toEndOf="parent"
```

```

        app:layout_constraintEnd_toStartOf="@+id/subbtn"
        app:layout_constraintHorizontal_bias="0.219"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/result" />

<Button
    android:id="@+id/subbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="4dp"
    android:layout_marginEnd="40dp"
    android:layout_marginRight="40dp"
    android:text="Sub"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="@+id/addbtn" />

<Button
    android:id="@+id/multbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="1dp"
    android:layout_marginLeft="1dp"
    android:layout_marginTop="27dp"
    android:text="Mul"
    app:layout_constraintStart_toStartOf="@+id/addbtn"
    app:layout_constraintTop_toBottomOf="@+id/addbtn" />

<Button
    android:id="@+id/divbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="27dp"
    android:layout_marginEnd="40dp"
    android:layout_marginRight="40dp"
    android:text="div"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/subbtn" />

<Button
    android:id="@+id/clrbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="19dp"
    android:layout_marginRight="19dp"
    android:layout_marginBottom="17dp"
    android:text="Clear"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/divbtn" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<androidx.constraintlayout.widget.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=".MainActivity">

<Button
    android:id="@+id/btnfirst"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="282dp"
    android:text="move to first activity"
    android:onClick="movefirst"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
/>

<Button
    android:id="@+id/btnsecond"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="57dp"
    android:text="move to second activity"
    android:onClick="movessecond"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/btnfirst" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Mainactivity.java

```

package com.example.helloworld;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

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

    public void movefirst(View v){

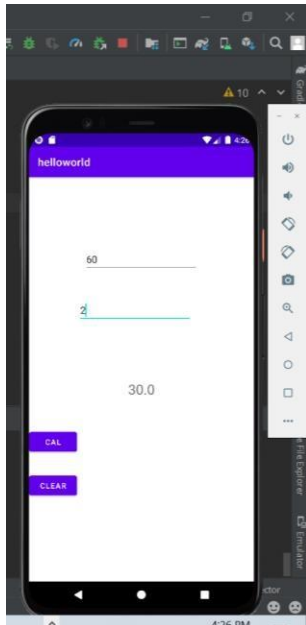
        Intent i = new Intent(this, FirstActivity.class);
        startActivity(i);
    }

    public void movessecond(View v){
        Intent i = new Intent(this, SecondActivity.class);
        startActivity(i);
    }
}

```

```
}  
}
```

BMI LAB



Firstactivity.java

```
package com.example.helloworld;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class FirstActivity extends AppCompatActivity {  
    private EditText firstNum, secNum;  
    private Button bmi, bc;  
    private TextView result;  
    private float op1, op2, op3;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_first2);  
        firstNum = (EditText) findViewById(R.id.weight);  
        secNum = (EditText) findViewById(R.id.hieght);  
        bmi = (Button) findViewById(R.id.BMI);  
        bc = (Button) findViewById(R.id.clrbtn);  
        result = (TextView) findViewById(R.id.result);  
  
        bmi.setOnClickListener(new View.OnClickListener() {
```

```

        @Override
        public void onClick(View view) {
            op1 = Float.parseFloat(firstNum.getText().toString());
            op2 = Float.parseFloat(secNum.getText().toString());
            op3 = op1 / op2;
            result.setText(Float.toString(op3));
        }
    });

    bc.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            firstNum.setText("");
            secNum.setText("");
            result.setText("");
        }
    });
}
}

```

activity_first.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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=".FirstActivity">

    <EditText
        android:id="@+id/weight"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="128dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/hieght"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="48dp"
        android:layout_marginEnd="11dp"

```



```

        android:layout_marginRight="11dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintEnd_toEndOf="@+id/weight"
        app:layout_constraintTop_toBottomOf="@+id/weight" />

<TextView
    android:id="@+id/result"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="105dp"
    android:text="Result"
    android:textSize="25dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/hieght" />

<Button
    android:id="@+id/BMI"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="100dp"
    android:layout_marginLeft="100dp"
    android:layout_marginTop="230dp"
    android:layout_marginEnd="24dp"
    android:layout_marginRight="24dp"
    android:layout_marginBottom="232dp"
    android:text="cal"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/result"
    app:layout_constraintStart_toEndOf="@+id/clrbtn"
    app:layout_constraintTop_toTopOf="@+id/hieght"
    app:layout_constraintVertical_bias="1.0" />

<Button
    android:id="@+id/clrbtn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:layout_marginBottom="152dp"
    android:text="Clear"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/BMI" />

<androidx.constraintlayout.widget.Guideline
    android:id="@+id/guideline2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    app:layout_constraintGuide_begin="20dp" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Main activity.java

```

package com.example.helloworld;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {

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

    public void movefirst(View v){

        Intent i = new Intent(this, FirstActivity.class);
        startActivity(i);
    }

    public void movessecond(View v){
        Intent i = new Intent(this, SecondActivity.class);
        startActivity(i);
    }
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<androidx.constraintlayout.widget.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=".MainActivity">

    <Button
        android:id="@+id/btnfirst"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="282dp"
        android:text="move to first activity"
        android:onClick="movefirst"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        />

    <Button
        android:id="@+id/btnsecond"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="57dp"

```

```
        android:text= "move to second activity"
        android:onClick="movessecond"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/btnfirst" />
</androidx.constraintlayout.widget.ConstraintLayout>
```