MOBILE APPLICATION DEVELOPMENT LAB

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MCA331

Question:

Develop an android application for electricity bill generation(use intent)

-> create a login form for validation (username and password checking)
-> create a form for electricity bill generation and display

XML_CODE: Activity_main.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"
    android:background="#AFAAE1"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/ed1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Name"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.163"
        tools:ignore="SpeakableTextPresentCheck" />

    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#EC598B"
```

```xml
        android:hint="PAY"
        android:onClick="onClick"
        android:text="Button"
        android:textColor="#212121"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.586"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.767" />

    <EditText
        android:id="@+id/ed2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Consumer Number"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.295" />

    <EditText
        android:id="@+id/ed3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="password"
        android:inputType="numberPassword"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.389" />

    <EditText
        android:id="@+id/ed4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Email_id"
        android:inputType="textEmailAddress"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
```

```xml
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.499" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="ELECTRICITY BILL"
        android:textSize="34sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.526"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.053" />

    <EditText
        android:id="@+id/ed5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Amount"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.629" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

XML_CODE: second_activity.xml

```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:id="@+id/t"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#EFB6B6"
    tools:context=".secondactivity">

    <TextView
        android:id="@+id/textView2"
```

```xml
        android:layout_width="49dp"
        android:layout_height="22dp"
        android:text="PAYMENT_SUCCESSFUL"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.513"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.152" />

    <TextView
        android:id="@+id/t1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.549"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.261" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVAFILE: Main_Activity.java

```java
package com.example.exam;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    EditText ed1;
    EditText ed4;
    EditText ed2;
    TextView ed3;
    Button b1;
    //b1=(Button)findViewById(R.id.b1);
    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
```

```java
        //n=(EditText).getElementById(R.id.ed1);
        ed1 = (EditText) findViewById(R.id.ed1);
        ed2= (EditText) findViewById(R.id.ed2);
        ed3 = (TextView) findViewById(R.id.ed3);
        ed4 = (EditText) findViewById(R.id.ed4);
        b1 = (Button) findViewById(R.id.b1);
    }
    public void onClick(View view) {
        Intent i = new Intent(getApplicationContext(),secondactivity.class);
        i.putExtra("value1", ed1.getText().toString());
        i.putExtra("value2", ed2.getText().toString());
        i.putExtra("value3", ed3.getText().toString());
        i.putExtra("value4", ed4.getText().toString());
        startActivity(i);
    }
}
```

JAVA FILE: second_ activity.java

```java
package com.example.exam;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.Toast;

public class secondactivity extends AppCompatActivity {

    EditText t1;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_secondactivity);
        Bundle extras = getIntent().getExtras();
        Intent i = new Intent(getApplicationContext(),secondactivity.class);
        String value1 = extras.getString("value1");
        String value2 = extras.getString("value2");
        String value3 = extras.getString("value3");
        String value4 = extras.getString("value4");
        t1.setText("value1");
        t1.setText("value2");
        t1.setText("value3");
        t1.setText("value4");
        startActivity(i);
        // Toast.makeText(getApplicationContext(), "MainAcitvty", Toast.LENGTH_SHORT).show();}
    }
}
```

OUTPUT: