MOBILE APPLICATION LAB INTERNAL EXAMINATION

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```
MainActivity.java
package com.example.elecbill;
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;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    EditText e1,e2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
         e1=(EditText) findViewById(R.id.edt1);
         e2=(EditText) findViewById(R.id.pass);
    }
    public void shd(View view)
        String s1 = e1.getText().toString();
        String s2=e2.getText().toString();
        if(s1.isEmpty())
          Toast.makeText(this, "Username cannot be
empty", Toast.LENGTH LONG).show();
      }
        else if (s2.length() < 4)
            Toast.makeText(this, "Password is too short
", Toast. LENGTH LONG) . show();
        }
        else
        {
            Intent i=new Intent(getApplicationContext(), MainActivity2.class);
            i.putExtra("key1",s1);
            startActivity(i);
        }
    }
}
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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/button"

```
android:layout width="wrap content"
        android:layout height="wrap content"
        android:onClick="shd"
        android:text="LOGIN"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.551" />
    <EditText
       android:id="@+id/pass"
        android:layout width="202dp"
        android:layout height="44dp"
        android:ems="10"
        android:inputType="textPassword"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="1.0"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.402" />
    <EditText
       android:id="@+id/edt1"
        android:layout width="215dp"
        android:layout height="75dp"
        android:ems="10"
        android:hint="enter user name"
        android:inputType="textPersonName"
        android:textColor="#3F51B5"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="1.0"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout_constraintVertical bias="0.286" />
    <TextView
        android:id="@+id/txt2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="password"
        app:layout_constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.163"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.424" />
    <TextView
       android:id="@+id/txt1"
        android:layout width="wrap content"
       android:layout height="wrap content"
       android:text="username"
       app:layout constraintBottom toBottomOf="parent"
       app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.163"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.327" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity2.java

```
package com.example.elecbill;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
    TextView t1, t2, t5;
    EditText e1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main2);
        t1=(TextView) findViewById(R.id.t1);
        t2=(TextView)findViewById(R.id.t2);
        Bundle extras=getIntent().getExtras();
        String val= extras.getString("key1");
        t1.setText(val);
    public void sub (View view)
        t5=(TextView)findViewById(R.id.t5);
        e1=(EditText) findViewById(R.id.e1);
        String s1=e1.getText().toString();
        Integer i1=Integer.parseInt(s1) *3;
        t5.setText(i1);
    }
}
```

activity main2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".MainActivity2">
    <Button
        android:id="@+id/button2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:onClick="sub"
        android:text="Find Price"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.498"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.658" />
    <EditText
        android:id="@+id/e1"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout_constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.666"
        app:layout constraintStart toStartOf="parent"
```

```
app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.314" />
    <EditText
       android:id="@+id/e2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd to EndOf = "parent"
        app:layout_constraintHorizontal bias="0.666"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical bias="0.479" />
    <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="0.079"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.077" />
    <TextView
       android:id="@+id/t2"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Enter Units consumed :"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.501"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.254" />
    <TextView
        android:id="@+id/t3"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Enter ConsumerID"
        app:layout_constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.451"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.414" />
    <TextView
        android:id="@+id/t5"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="TextView"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.379"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.782" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output:



