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**Class :: B.tech 'A'**

**Experiment No. :: 3          Sub :: MAD**

**Title :: To design an application using Table Layout, Frame Layout and Intent.**

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### **XML 1:: (table layout)**

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout
xmlns:android="http://schemas.android.com/apk/res/
android"
    android:id="@+id/main"
    android:layout_height="match_parent"
    android:stretchColumns="1"
    android:padding="20dp"
    android:gravity="center_horizontal"
    android:layout_marginTop="80dp"
    android:layout_width="match_parent">

    <TableRow

android:gravity="center_vertical|center_horizontal">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:padding="8dp"
            android:text="Exam Session:"
            android:textSize="18sp"
            android:textStyle="bold" />

        <EditText
            android:id="@+id/editText2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Enter Session"
            android:inputType="text" />
    </TableRow>
    <!-- Button -->
    <TableRow android:gravity="center">

        <Button
            android:id="@+id/buttonGetResults"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="20dp"
            android:padding="12dp"
            android:text="Get Results" />
    </TableRow>
</TableLayout>
```

### **JAVA 1 ::**

```
package com.example.exp3;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
```

```

public class MainActivity extends AppCompatActivity {

    EditText e1, e2;
    Button b;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);

        ViewCompat.setOnApplyWindowInsetsListener(findView
wById(R.id.main), (v, insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBar
s());
            v.setPadding(systemBars.left, systemBars.top,
systemBars.right, systemBars.bottom);

```

XML 2 ::

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
xmlns:android="http://schemas.android.com/apk/res/
android"
    android:id="@+id/main"
    android:layout_height="match_parent"
    android:layout_width="match_parent"
    android:background="@drawable/img"
    android:padding="20dp" >
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:background="#AFFFFFFF"
        android:padding="16dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">
            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="PRN:"
                android:textSize="18sp"
                android:padding="8dp" />
            <EditText
                android:id="@+id/editTextPrnFrame"

```

```

        return insets;
    });
    e1 = findViewById(R.id.editText1);
    e2 = findViewById(R.id.editText2);
    b = findViewById(R.id.buttonGetResults);

    b.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            String prn = e1.getText().toString();
            String session = e2.getText().toString();

            Intent i = new Intent(MainActivity.this,
MainActivity2.class);
            i.putExtra("prn", prn);
            i.putExtra("session", session);
            startActivity(i);
        }
    });
}
}

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:enabled="false" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Session:"
            android:textSize="18sp"
            android:padding="8dp" />
        <EditText
            android:id="@+id/editTextSessionFrame"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:enabled="false" />
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <TextView
            android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:text="Result:"
        android:textSize="18sp"
        android:padding="8dp" />
<EditText
    android:id="@+id/editTextResult"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter Result" />
</LinearLayout>

```

```

<Button
    android:id="@+id/buttonGoBack"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Go Back"
    android:layout_gravity="center_horizontal"
    android:padding="12dp"
    android:layout_marginTop="20dp" />
</LinearLayout>
</FrameLayout>

```

JAVA 2 ::

```

package com.example.exp3;

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

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity2 extends AppCompatActivity
{
    EditText e1, e2;
    Button b;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main2);

        ViewCompat.setOnApplyWindowInsetsListener(findVie

```

```

wById(R.id.main), (v, insets) -> {
    Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBar
s());
    v.setPadding(systemBars.left, systemBars.top,
systemBars.right, systemBars.bottom);
    return insets;
});

e1 = findViewById(R.id.editTextPrnFrame);
e2 = findViewById(R.id.editTextSessionFrame);
b = findViewById(R.id.buttonGoBack);

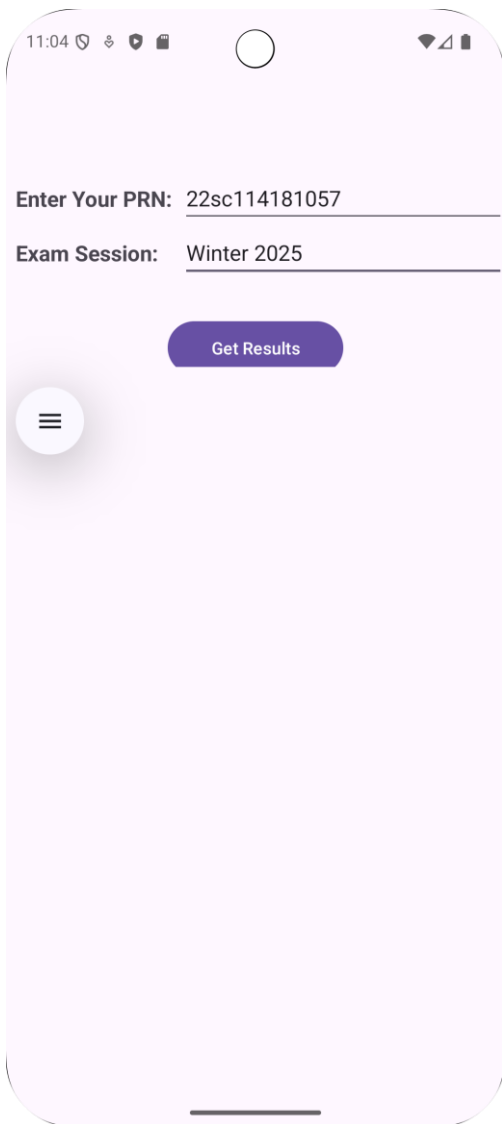
Intent i1 = getIntent();
String prn = i1.getStringExtra("prn");
String session = i1.getStringExtra("session");

e1.setText(prn);
e2.setText(session);

b.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        finish();
    }
});
}
}

```

## OUTPUT ::



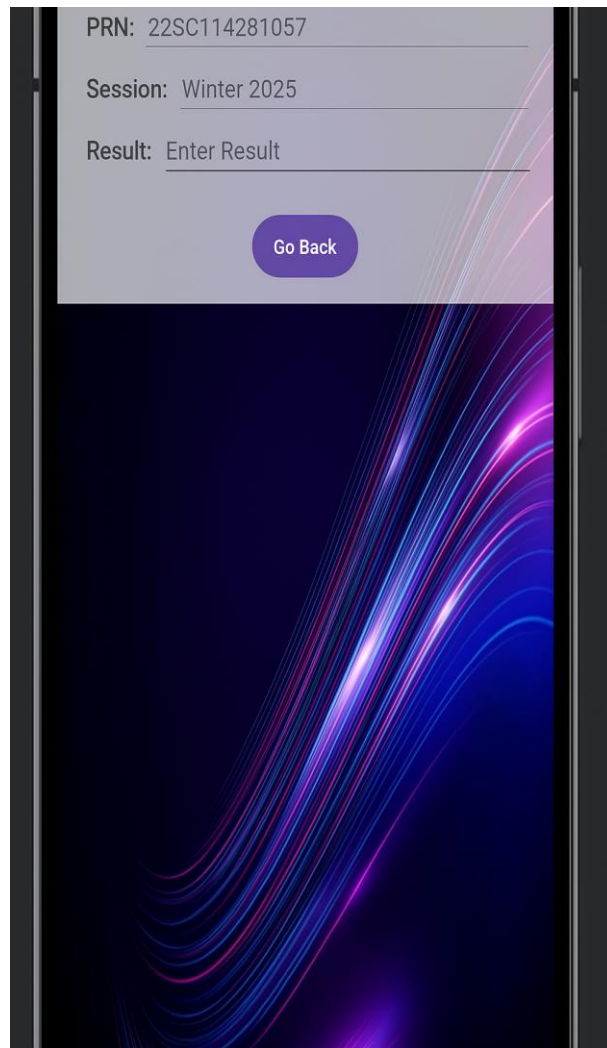
11:04

Enter Your PRN: 22sc114181057

Exam Session: Winter 2025

Get Results

≡



PRN: 22SC114281057

Session: Winter 2025

Result: Enter Result

Go Back