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Class: B-Tech CSE

Roll no: 41 **Sub:** MAD

Exp no: 10

Title: To develop an application using Menus in Android.

XML Code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <!-- Welcome Text -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="144dp"
        android:text="Welcome to SGU"

        android:textSize="50sp"
        android:textStyle="bold"
        android:textColor="#000000" />

    <!-- Image -->
    <ImageView
```

```
        android:id="@+id/imageView"
        android:layout_width="247dp"
        android:layout_height="157dp"
        android:layout_below="@id/textView"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="50dp"
        app:srcCompat="@drawable/me"
        android:contentDescription="Welcome
Image" />
```

Java Code:

```
package com.example.exp10;

import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.annotation.NonNull;
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 {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars =
            insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left,
            systemBars.top, systemBars.right,
            systemBars.bottom);
            return insets;
        });
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.menu, menu);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        String str = item.getTitle().toString();
        switch (str) {
            case "Get Result":
                Toast.makeText(this,
                    "Name: Praju\nCGPA: 8.9\nBranch: CSE",
                    Toast.LENGTH_SHORT).show();
                return true;
            case "Get Attendance":
                Intent intent = new Intent(MainActivity.this, MainActivity2.class);
                startActivity(intent);
                return true;
            case "Check for status":
                Toast.makeText(this,
                    "Name: Praju\nStatus: Present",
                    Toast.LENGTH_SHORT).show();
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}

XML 2 Code:
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout

```

```
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/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity2">

<TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="130dp"
        android:text="Name: Sankalp"
        android:textSize="20sp" />

<TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="Roll No.: 37"
        android:textSize="20sp" />

<TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```
        android:layout_below="@+id/textView2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="PRN: 22SC114281051"
        android:textSize="20sp" />

<TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView3"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:text="Attendance: 70%"
        android:textSize="20sp" />
```

</RelativeLayout>

Java 2 Code:

```
package com.example.exp10;
import android.os.Bundle;
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 {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

super.onCreate(savedInstanceState);
}
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main2);

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

    return insets;
});
}

```



