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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" />
</RelativeLayout>
```

### 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.setOnApplyWindowInsetsListene
r(findViewById(R.id.main), (v, insets) -> {

            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.sys
temBars());

            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;
});
}

```



