



# PRESIDENCY UNIVERSITY

Mobile application development(CSE 3075)

20211CSE0223

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5CSE4

## Experiment 12: Aeroplane Mode

### 1.Design (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"
tools:context=".MainActivity"
android:background="@drawable/img">

    <TextView
        android:id="@+id/tv1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.465"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.258" />

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

### 2.JAVA File

```
package com.example.airplanemode_0223;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
```

```

import android.content.Intent;
import
android.content.IntentFilter;
import android.os.Bundle; import
android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    TextView tv1;
    NewJavaFile receiver;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv1=findViewById(R.id.tv1);
    }

    @Override
    protected void onStart() {
        super.onStart();
        receiver = new NewJavaFile(tv1);
        registerReceiver(receiver,new
        IntentFilter(Intent.ACTION_AIRPLANE_MODE_CHANGED));
    }

    @Override
    protected void onStop() {
        super.onStop();
        unregisterReceiver(receiver);
    }
}

```

## NewJavaFille.java

```

package com.example.airplanemode_0223;

import
android.content.BroadcastReceiver;
import android.content.Context; import
android.content.Intent; import
android.widget.TextView;
    public class NewJavaFile extends BroadcastReceiver
{    TextView tv1;
        NewJavaFile(TextView tv)
        {
            tv1=tv;
        }
        @Override
        public void onReceive(Context context, Intent intent) {
            Boolean isAirplane=intent.getBooleanExtra("state",false);
            if(isAirplane) {
                tv1.setText("Aeroplane Mode Enabled");
            }
            else {
                tv1.setText("Aeroplane Mode Disabled");
            }
        }
    }
}

```

## AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Airplanemode_0223"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:icon="@mipmap/airplane">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

## 3. Output in the emulator



