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SECTION:5CSE-4

AEROPLANEMODE APPLICATION

1.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">

    <TextView
        android:id="@+id/tv"
        android:layout_width="155dp"
        android:layout_height="33dp"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.425"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.593" />

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.379"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.373"
        app:srcCompat="@drawable/aero" />

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

2.MainActivity.java:

```
package com.example.exp10;

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 tv;
    Amode receiver;//creation object for Amode.java class
    //constructor invoke automatically when obj create whatever happening
```

```

this activity it will go to java.class
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    tv=findViewById(R.id.tv);
}

@Override
protected void onStart() {
    super.onStart();
    receiver=new Amode(tv); //HERE constructor is invoke bcz of new
    registerReceiver(receiver,new
IntentFilter(Intent.ACTION_AIRPLANE_MODE_CHANGED)); //inbuilt method
    //larg is java class obj
}

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

```

3.Amode.java:

```

package com.example.exp10;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.widget.TextView;

public class Amode extends BroadcastReceiver {
    //click on bulb ,Implement method ,on Receive
    TextView tv; //no id cascading bce of no xml file
    Amode(TextView tv) {
        this.tv = tv;
    }
    @Override
    public void onReceive(Context context, Intent intent) {
        Boolean isAirplane=intent.getBooleanExtra("state",false); //default
false bcz of boolean
        //state is default key ,we not create in mainactivity for this
        if (isAirplane){
            tv.setText("Aeroplane Mode is Enabled");
            //tv.setTextColor(0);
        }
        else {
            tv.setText("Aeroplane Mode Disabled");
        }
    }
}

```

4.output:

