Practical No 21

X.1

- **Program**
- **XML File:**

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
 xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:tools="http://schemas.android.com/tools"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **JAVA File:**

```java
package com.example.prac21;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.IntentFilter;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
 AirplaneModeChangeReceiver airplaneModeChangeReceiver = new
AirplaneModeChangeReceiver();
 @Override
 protected void onCreate(Bundle savedInstanceState) {
 super.onCreate(savedInstanceState);
 setContentView(R.layout.activity_main);
 }
 @Override
 protected void onStart() {
 super.onStart();
 IntentFilter filter = new
```

```java
IntentFilter(Intent.ACTION_AIRPLANE_MODE_CHANGED);
 registerReceiver(airplaneModeChangeReceiver, filter);
 }
 @Override
 protected void onStop() {
 super.onStop();
 unregisterReceiver(airplaneModeChangeReceiver);
 }
}
```

- **AirplaneModeChangeReceiver.java**

```java
package com.example.prac21;
import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.provider.Settings;
import android.widget.Toast;
public class AirplaneModeChangeReceiver extends BroadcastReceiver {
 @Override
 public void onReceive(Context context, Intent intent) {
 if (isAirplaneModeOn(context.getApplicationContext())) {
 Toast.makeText(context, "AirPlane mode is on",
Toast.LENGTH_SHORT).show();
 } else {
 Toast.makeText(context, "AirPlane mode is off",
Toast.LENGTH_SHORT).show();
 }
 }
 private static boolean isAirplaneModeOn(Context context) {
```

```
 return Settings.System.getInt(context.getContentResolver(),

Settings.Global.AIRPLANE_MODE_ON, 0) != 0;

 }

}
```

- **Output:**