Android Developer Fundamentals (TCSCCS0407P)

Name: Kaysan Shaikh

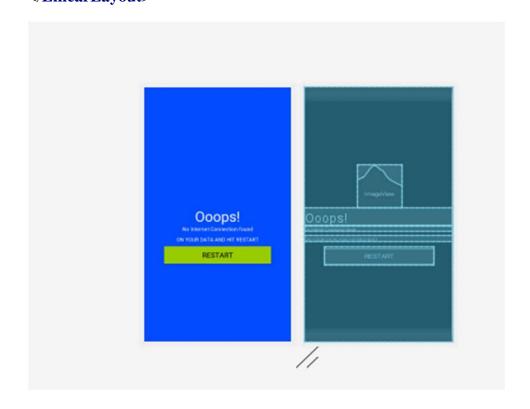
Div: A

Assignment No: 08

Aim - Create an android app to Connect to the Internet and use BroadcastReceiver.

```
customdialog.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:orientation="vertical" android:layout_width="match_parent"
android:background="#024BFF"
android:gravity="center"
android:layout_height="match_par
ent">
<ImageView
 android:layout_width="120dp"
 android:layout_height="120dp"
 android:src="@drawable/no inte
 android:layout gravity="center
 "/>
<TextView
 android:layout_width="match_
 parent"
 android:layout height="wrap co
 ntent" android:text="Ooops!"
 android:gravity="center"
 android:textColor="#FFF"
 android:textSize="40sp"/>
<TextView
 android:id="@+id/nettext
 android:layout_width="match_pare
 nt"
 android:layout_height="wrap_cont
 ent" android:text="No Internet
 Connection found"
 android:textColor="#FFF"
 android:textSize="15sp"
 android:layout marginBottom="10
 dp" android:gravity="center"/>
<TextView
 android:layout_width="match_
 parent"
 android:layout height="wrap co
 ntent"
 android:text="ON YOUR DATA AND HIT RESTART"
```

```
ROLL NO: - 4334
                      Android Developer Fundamentals
                                                            Name: Kaysan Shaikh
SYBSC [CS]
                            (TCSCCS0407P)
                                                            Div: A
     android:textColor="#FFF"
     android:textSize="15sp"
     android:layout_marginBottom="
     10dp"
     android:gravity="center"/>
   <Button
     android:id="@+id/restar
     tapp"
     android:layout_width="30
     0dp"
     android:layout_height="
     50dp"
     android:text="Restart"
     android:textSize="20sp"
     android:background="@android:color/holo_green_light"/>
   </LinearLayout>
```



Network_util.java

import android.content.Context;
import
android.net.ConnectivityManager;

```
Android Developer Fundamentals
ROLL NO: - 4334
                                                             Name: Kaysan Shaikh
SYBSC [CS]
                             (TCSCCS0407P)
                                                              Div: A
   import android.net.NetworkInfo;
   class NetworkUtil {
     public static String
       getConnectivityStatusString(Context context) { String
       status = null;
       ConnectivityManager cm = (ConnectivityManager)
   context.getSystemService(Context.CONNECTIVITY_SERVICE);
       NetworkInfo activeNetwork =
       cm.getActiveNetworkInfo();if (activeNetwork
       != null) {
        if (activeNetwork.getType() ==
          ConnectivityManager.TYPE_WIFI) {status = "Wifi
          enabled";
          return status;
         } else if (activeNetwork.getType() ==
          ConnectivityManager.TYPE_MOBILE) { status = ''Mobile
          data enabled":
          return status;
       } else {
        status = "No internet is
        available"; return status;
       return status;
   }
   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"
     package="com.example.broadcastreceiverapplication">
     <application
       android:allowBackup="true"
       android:icon="@mipmap/ic_la
       uncher"
       android:label="@string/app_
       name"
       android:roundIcon="@mipmap/ic_launcher_round"
       android:supportsRtl="true"
       android:theme="@style/AppTheme">
       <activity android:name=".MainActivity">
         <intent-filter>
```

```
Android Developer Fundamentals
ROLL NO: - 4334
                                                             Name: Kaysan Shaikh
                            (TCSCCS0407P)
SYBSC [CS]
                                                             Div: A
          <action android:name="android.intent.action.MAIN" />
          <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
       </activity>
       <receiver android:name = "MyReceiver">
        <intent-filter>
          <action android:name = "android.net.conn.CONNECTIVITY_CHANGE"
            tools:ignore="BatteryLife"/>
          <action android:name = "android.net.wifi.WIFI STATE CHANGED" />
        </intent-filter>
     </receiver>
  </application>
     <uses-permission
     android:name="android.permission.ACCESS NETWORK STATE"/>
   </manifest>
   MyReceiver.java
   import
   android.app.Activity;
   import android.app.Dialog;
   import
   android.content.BroadcastReceiver
   ;import android.content.Context;
   import
   android.content.Intent;
   import android.util.Log;
   import
   android.view.View;
   import
   android.widget.Button;
   import
   android.widget.TextView;
   import
   android.widget.Toast;
   import
   com.example.broadcastreceiverapplication.MainActivity;
   import com.example.broadcastreceiverapplication.R;
   public class MyReceiver extends
     BroadcastReceiver { Dialog dialog;
     TextView
     nettext;
```

Name: Kaysan Shaikh

Div: A

```
@Override
 public void onReceive(final Context context, final
   Intent intent) { String status =
   NetworkUtil.getConnectivityStatusString(context);
   dialog = new Dialog(context,android.R.style.Theme_NoTitleBar_Fullscreen);
   dialog.setContentView(R.layout.customdialog);
   Button restartapp = (Button)dialog.findViewById(
   R.id.restartapp); nettext
   =(TextView)dialog.findViewById(R.id.nettext);
       restartapp.setOnClickListener(new
     View.OnClickListener() { @ Override
     public void onClick(View v)
       { ((Activity)
       context).finish();
       Log.d("clickedbutton","ves
       ");
       Intent i = new Intent(context,
       MainActivity.class);
       context.startActivity(i);
     }
   });
   Log.d("network", status);
   if(status.isEmpty()||status.equals("No internet is available")||status.equals("No
Internet Connection'')) {
     status="No Internet
     Connection"; dialog.show();
   Toast.makeText(context, status, Toast.LENGTH_LONG).show();
}
MainActivity.java
package
com.example.broadcastreceiverapplication;
android.content.BroadcastReceiver;
import
android.content.IntentFilter;
import
android.net.ConnectivityManager;
import android.os.Bundle;
import androidx.annotation.Nullable:
import
```

```
ROLL NO: - 4334
                      Android Developer Fundamentals
                                                              Name: Kaysan Shaikh
                             (TCSCCS0407P)
SYBSC [CS]
                                                              Div: A
   androidx.appcompat.app.AppCompatActivit
   y; public class MainActivity extends
   AppCompatActivity{
     private BroadcastReceiver
     MyReceiver = null; @Override
     protected void on Create (@Nullable Bundle
       savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       MyReceiver = new
       MyReceiver();
       broadcastIntent();
     public void broadcastIntent() {
       registerReceiver(MyReceiver,
   IntentFilter(ConnectivityManager.CONNECTIVITY_ACTION));
     }
     @Override
     protected void
       onPause() {
       super.onPause();
          unregisterReceiver(MyReceiver);
     }
```

Output:

ROLL NO: - 4334 Android Developer Fundamentals
SYBSC [CS] (TCSCCS0407P)

Name: Kaysan Shaikh

Div: A

