**Practical No. 17**

**Aim: Program to create a New Thread for Service Tasks.**

**Performed by:**

**Class: BCA-III SEM-V**

**Date:**

**Code:**

**MainActivity.java**

package com.example.thread;  
  
import android.os.AsyncTask;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 private TextView resultTextView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Get reference to start button and result text view  
 Button startButton = findViewById(R.id.*start\_button*);  
 resultTextView = findViewById(R.id.*result\_text\_view*);  
  
 // Set an OnClickListener for the start button  
 startButton.setOnClickListener(view -> new BackgroundTask().execute());  
 }  
  
 // BackgroundTask inner class to perform the background task  
 private class BackgroundTask extends AsyncTask<Void, Void, String> {  
 @Override  
 protected String doInBackground(Void... voids) {  
 // Perform background task  
 try {  
 Thread.*sleep*(5000);  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 return "Task Completed";  
 }  
  
 @Override  
 protected void onPostExecute(String result) {  
 // Update UI with the results  
 resultTextView.setText(result);  
 }  
 }  
}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical">  
  
 <!-- Display the result text -->  
 <TextView  
 android:id="@+id/result\_text\_view"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Result will appear here"  
 android:textSize="25sp" />  
  
 <!-- Start button -->  
 <Button  
 android:id="@+id/start\_button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Start" />  
  
</LinearLayout>

**Output:**



