**CO4\_Q2(SPINNER)**

**AIM:**

Develop an application that implements Spinner component and perform event handling

**MainActivity.java**

**package com.example.spinner;**

**import androidx.appcompat.app.AppCompatActivity;**

**import android.view.View;**

**import android.widget.Adapter;**

**import android.widget.AdapterView;**

**import android.os.Bundle;**

**import android.widget.ArrayAdapter;**

**import android.widget.Spinner;**

**import android.widget.Toast;**

**public class MainActivity extends AppCompatActivity implements**

**AdapterView.OnItemSelectedListener {**

**String[] Names = { "SHANA","ANUSHREE","ANILA","NOVRIN","HELNA","OTHERS"};**

**@Override**

**protected void onCreate(Bundle savedInstanceState) {**

**super.onCreate(savedInstanceState);**

**setContentView(R.layout.activity\_main);**

**//Getting the instance of Spinner and applying OnItemSelectedListener on it**

**Spinner spin = (Spinner) findViewById(R.id.coursesspinner);**

**spin.setOnItemSelectedListener(this);**

**//Creating the ArrayAdapter instance having the country list**

**ArrayAdapter aa = new ArrayAdapter(this,android.R.layout.simple\_spinner\_item,Names);**

**aa.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);**

**//Setting the ArrayAdapter data on the Spinner**

**spin.setAdapter(aa);**

**}**

**//Performing action onItemSelected and onNothing selected**

**@Override**

**public void onItemSelected(AdapterView<?> arg0, View arg1, int position, long id) {**

**Toast.makeText(getApplicationContext(),Names[position] , Toast.LENGTH\_LONG).show();**

**}**

**@Override**

**public void onNothingSelected(AdapterView<?> arg0) {**

**// TODO Auto-generated method stub**

**}**

**}**

**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:id="@+id/but"**

**android:layout\_width="match\_parent"**

**android:layout\_height="match\_parent"**

**tools:context=".MainActivity">**

**<Spinner**

**android:id="@+id/coursesspinner"**

**android:layout\_width="160dp"**

**android:layout\_height="50dp"**

**android:layout\_marginStart="10dp"**

**android:layout\_marginTop="10dp"**

**android:layout\_marginEnd="10dp"**

**android:layout\_marginBottom="10dp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent" />**

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

**OUTPUT:**