**PRACTICAL:13**

**AIM:Create an application to play video using the YouTube API in PIP mode.**

**Source Code:**

**Program: activity\_main.xml**

|  |
| --- |
| <?xml version="1.0" encoding="utf-8"?>  <RelativeLayout  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"> <VideoView  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:id="@+id/video"  android:layout\_above="@id/pipbtn"/> <Button  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="Enter PIP mode"  android:layout\_alignParentBottom="true"  android:id="@+id/pipbtn"/> </RelativeLayout> |

**Program: MainActivity.java**

package com.example.practical13;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.ActionBar;  
import android.app.Notification;  
import android.app.PictureInPictureParams;  
import android.drm.DrmStore;  
import android.graphics.Point;  
import android.net.Uri;  
import android.os.Bundle;  
import android.util.Rational;  
import android.view.Display;  
import android.view.View;  
import android.widget.Button;  
import android.widget.MediaController;  
import android.widget.VideoView;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button pipbtn;  
 String path = "/storage/DCIM/Camera/movie.mp4";  
 ActionBar actionBar;  
 VideoView video;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 video = (VideoView)findViewById(R.id.*video*);  
 actionBar = getActionBar();  
 MediaController mediaController= new MediaController(this);  
 mediaController.setAnchorView(video);  
 video.setMediaController(mediaController);  
 video.setVideoURI(Uri.*parse*(path));  
 video.requestFocus();  
 video.start();  
  
 pipbtn = (Button)findViewById(R.id.*pipbtn*);  
  
 pipbtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Display display = getWindowManager().getDefaultDisplay();  
 Point point = new Point();  
 display.getSize(point);  
 int width = point.x;  
 int height = point.y;  
 Rational ratio = new Rational(width,height);  
 PictureInPictureParams.Builder pip\_builder = new PictureInPictureParams.Builder();  
 pip\_builder.setAspectRatio(ratio).build();  
 pipbtn.setVisibility(View.*INVISIBLE*);  
 enterPictureInPictureMode(pip\_builder.build());  
  
 }  
 });  
}  
}

**Output:**

