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Rollno. :- 8239(A)
Subject :- Android Programming

PRACTICAL – 09

Aim :- Create an android app for Audio and Video.

Code :-

1.Audio

ActivityMain.java:-

```java
package com.example.prac7;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.Button;

import android.widget.SeekBar;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Button play,pause,stop;

SeekBar sb;

Handler hd=new Handler();

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
```

```java
        pause=(Button) findViewById(R.id.button);

        play=(Button) findViewById(R.id.button2);

        stop=(Button) findViewById(R.id.button3);


        sb=(SeekBar) findViewById(R.id.seekBar);

        MediaPlayer mp=MediaPlayer.create(this,R.raw.sample);

        pause.setOnClickListener(new View.OnClickListener() {

            @Override


            public void onClick(View view) {

                mp.pause();

                Toast.makeText(getApplicationContext(),&quot;Pause..&quot;,Toast.LENGTH_L
ONG).show();

            }


        });

        stop.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                mp.stop();

                Toast.makeText(getApplicationContext(),&quot;Stopped...&quot;,
Toast.LENGTH_LONG).show();

            }

        });


        play.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                int prog=mp.getCurrentPosition();

                sb.setProgress(prog);

                mp.start();

                Toast.makeText(getApplicationContext(), &quot;Playing...&quot;,
Toast.LENGTH_LONG).show();
```

```java
        hd.postDelayed(updateSongTime, 100);


    }
    Runnable updateSongTime=new Runnable() {
        @Override
        public void run() {
            int prog=mp.getCurrentPosition();
            sb.setProgress(prog);
            hd.postDelayed(this , 100);
        }
    };
});


sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
    @Override
    public void onProgressChanged(SeekBar seekBar, int i, boolean b) {
        mp.seekTo(i);
    }
    @Override
    public void onStartTrackingTouch(SeekBar seekBar) {
    }
    @Override
    public void onStopTrackingTouch(SeekBar seekBar) {
    }
});
  }
}
```

Activity_main.xml:-

package com.example.prac7;

```java
import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.Button;

import android.widget.SeekBar;

import android.widget.Toast;


public class MainActivity extends AppCompatActivity {

Button play,pause,stop;

SeekBar sb;

Handler hd=new Handler();

  @Override

  protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    pause=(Button) findViewById(R.id.button);

    play=(Button) findViewById(R.id.button2);

    stop=(Button) findViewById(R.id.button3);

    sb=(SeekBar) findViewById(R.id.seekBar);

    MediaPlayer mp=MediaPlayer.create(this,R.raw.sample);

    pause.setOnClickListener(new View.OnClickListener() {

      @Override

      public void onClick(View view) {

        mp.pause();

        Toast.makeText(getApplicationContext(),&quot;Pause..&quot;,Toast.LENGTH_LONG).show();

      }

    });
```

```java
    stop.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View view) {

            mp.stop();

            Toast.makeText(getApplicationContext(),&quot;Stopped...&quot;,
Toast.LENGTH_LONG).show();

        }

    });

    play.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View view) {

            int prog=mp.getCurrentPosition();

            sb.setProgress(prog);

            mp.start();

            Toast.makeText(getApplicationContext(), &quot;Playing...&quot;,
Toast.LENGTH_LONG).show();

            hd.postDelayed(updateSongTime, 100);

        }

        Runnable updateSongTime=new Runnable() {

            @Override

            public void run() {

                int prog=mp.getCurrentPosition();

                sb.setProgress(prog);

                hd.postDelayed(this , 100);

            }

        };

    });

    sb.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {

        @Override

        public void onProgressChanged(SeekBar seekBar, int i, boolean b) {

            mp.seekTo(i);
```

```
        }

        @Override

        public void onStartTrackingTouch(SeekBar seekBar) {

        }

        @Override

        public void onStopTrackingTouch(SeekBar seekBar) {

        }

    });

  }

}
```

Activity_main.xml:-

```xml
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout

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"

android:gravity="center"

android:orientation="vertical"

tools:context=".MainActivity">

<Button

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:onClick="play"

android:text="Play" />

<Button

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:onClick="pause"
```
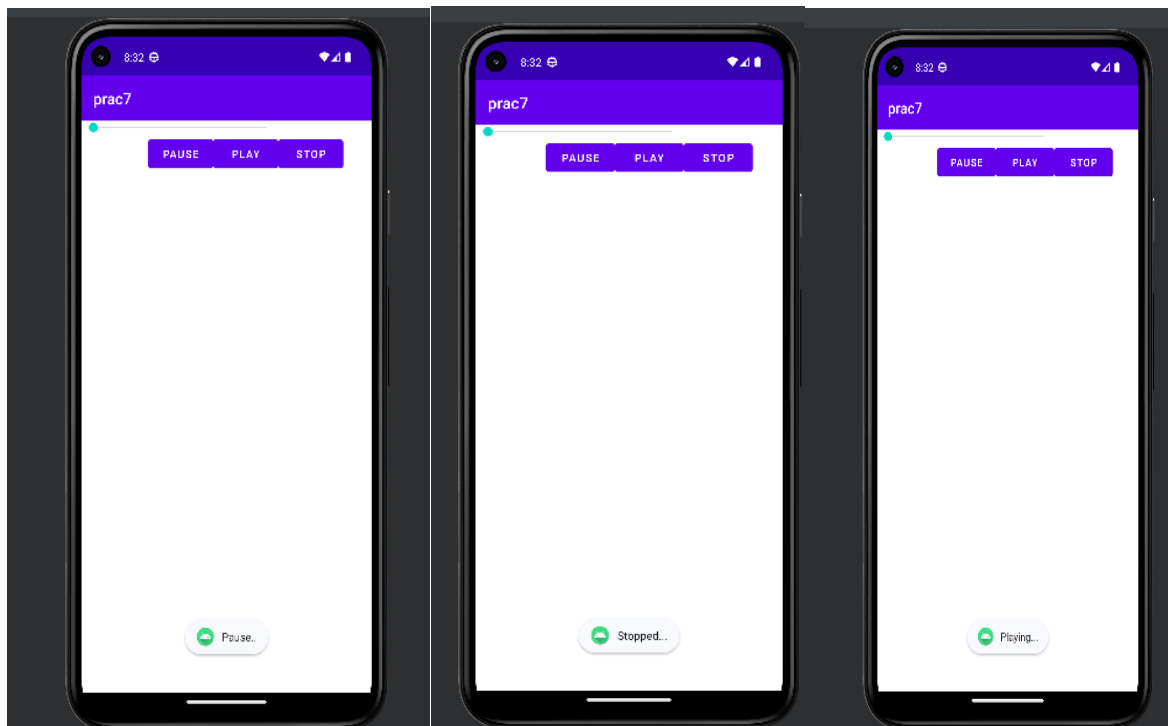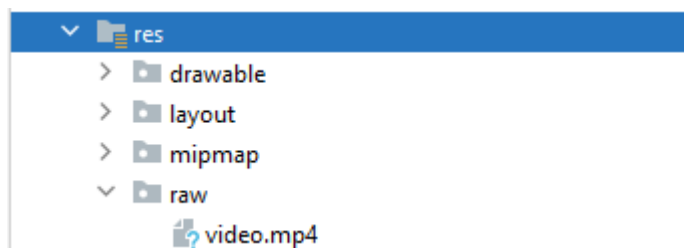
android:text="Pause" />

<Button

android:layout_width="wrap_content"

android:layout_height="wrap_content"

android:onClick="stop"

android:text="Stop" />

</LinearLayout>

Output :-

2.Video

Create new resource directory (raw) to store video to be played.

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ActivityMain.java:-

```java
package com.example.videoplayer;

import androidx.appcompat.app.AppCompatActivity;

import android.net.Uri;
import android.os.Bundle;
import android.widget.MediaController;
import android.widget.VideoView;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        VideoView videoView = findViewById(R.id.video_view);
        String videoPath = "android.resource://" + getPackageName() + "/" + R.raw.video;
        Uri uri = Uri.parse(videoPath);
        videoView.setVideoURI(uri);

        MediaController mediaController = new MediaController(this);
        videoView.setMediaController(mediaController);
        mediaController.setAnchorView(videoView);
    }
}
```

Activity_main.xml:-

```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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <FrameLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent">

    <VideoView
        android:id="@+id/video_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

  </FrameLayout>

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

Output :-