

Exp 8: Media Player

1. Create an Empty Views Activity
2. Activity_main.xml

Create 3 Buttons for Playing, Pausing and Stopping the MediaPlayer

```
<Button
    android:id="@+id/pause"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Pause"
    android:textStyle="bold"
    android:textAlignment="center"
    android:layout_below="@id/play"
    android:textSize="30dp"
    android:layout_marginTop="50dp"/>
```

To be done for more two buttons

3. Activity_Main.java

MainActivity (extends AppCompatActivity)

```
|
|  └─ Variables:
|    └─ MediaPlayer mediaPlayer
|
|  └─ onCreate(Bundle savedInstanceState)
|    └─ setContentView(activity_main)
|    └─ Button play ← findViewById(R.id.play)
|    └─ Button pause ← findViewById(R.id.pause)
|    └─ Button stop ← findViewById(R.id.stop)
|    └─ mediaPlayer ← MediaPlayer.create(context, R.raw.song)
|
|    └─ play.setOnClickListener
|      └─ if (!mediaPlayer.isPlaying()) → start(), Toast "Audio Playing"
|
|    └─ pause.setOnClickListener
|      └─ if (mediaPlayer.isPlaying()) → pause(), Toast "Audio Paused"
|
|    └─ stop.setOnClickListener
|      └─ if (playing or started) → stop(), recreate player, Toast "Audio Stopped"
|
|  └─ onDestroy()
|    └─ if (mediaPlayer != null) → release(), set to null
```

```
package com.example.mediaplayer;
```

```
import android.media.MediaPlayer;
```

```

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity
{

    private MediaPlayer mediaPlayer;

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

        Button play= findViewById(R.id.play);
        Button pause= findViewById(R.id.pause);
        Button stop= findViewById(R.id.stop);

        mediaPlayer=MediaPlayer.create(this,R.raw.song);

        play.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                if(!mediaPlayer.isPlaying())
                {
                    mediaPlayer.start();
                    Toast.makeText(MainActivity.this,"Audio Playing",Toast.LENGTH_SHORT).show();
                }
            }
        });

        pause.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view)
            {
                if(mediaPlayer.isPlaying())
                {
                    mediaPlayer.pause();
                    Toast.makeText(MainActivity.this,"Audio Paused",Toast.LENGTH_SHORT).show();
                }
            }
        });
    }
}

```

```

        }

    }
});

stop.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view)
    {
        if(mediaPlayer.isPlaying() || mediaPlayer.getCurrentPosition()>0)
        {
            mediaPlayer.stop();
            mediaPlayer=MediaPlayer.create(MainActivity.this,R.raw.song);
            Toast.makeText(MainActivity.this,"Audio Stopped",Toast.LENGTH_SHORT).show();
        }
    }
});

}

protected void onDestroy()
{
    super.onDestroy();
    if(mediaPlayer!=null)
    {
        mediaPlayer.release();
        mediaPlayer=null;
    }
}
}

```