

Program 4- Media Player

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MainActivity.java

```
package com.example.mediaplayer_400;

import androidx.appcompat.app.AppCompatActivity;
import android.media.MediaPlayer;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    MediaPlayer mediaPlayer;
    int forwardTime = 5000;
    int backwardTime = 5000;

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

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

        TextView songTitle = findViewById(R.id.songname);
        songTitle.setText("Toofan KGF");

        Button play = findViewById(R.id.play);
        play.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(), "Playing Song",
Toast.LENGTH_LONG).show();
                mediaPlayer.start();
            }
        });

        Button pause = findViewById(R.id.pause);
        pause.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(), "Pausing Song",
Toast.LENGTH_LONG).show();
                mediaPlayer.pause();
            }
        });
    }
}
```

```

Button forward = findViewById(R.id.forward);
forward.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        int currentPos = mediaPlayer.getCurrentPosition();
        if ((currentPos + forwardTime) <= mediaPlayer.getDuration()) {
            mediaPlayer.seekTo(currentPos + forwardTime);
        }
    }
});

```

```

Button rewind = findViewById(R.id.rewind);
rewind.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        int currentPos = mediaPlayer.getCurrentPosition();
        if ((currentPos - backwardTime) >= 0) {
            mediaPlayer.seekTo(currentPos - backwardTime);
        }
    }
});

```

```

Button stop = findViewById(R.id.stop);
stop.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getApplicationContext(), "Stopping Song",
Toast.LENGTH_LONG).show();
        mediaPlayer.stop();
        mediaPlayer = MediaPlayer.create(MainActivity.this, R.raw.toofan);
    }
});

```

```

Button restart = findViewById(R.id.restart);
restart.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Toast.makeText(getApplicationContext(), "Restarting Song",
Toast.LENGTH_LONG).show();
        mediaPlayer.seekTo(0);
        mediaPlayer.start();
    }
});
}
}

```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/songname2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="casual"
        android:text="Media Player"
        android:textAlignment="center"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:textSize="34sp" />

    <TextView
        android:id="@+id/songname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Song"
        android:textAlignment="center"
        android:textSize="20sp" />

    <Button
        android:id="@+id/play"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="PLAY"
        app:icon="@android:drawable/ic_media_play" />

    <Button
        android:id="@+id/pause"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="PAUSE"
        app:icon="@android:drawable/ic_media_pause" />

    <Button
        android:id="@+id/forward"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="FORWARD"
        app:icon="@android:drawable/ic_media_ff" />

    <Button
        android:id="@+id/rewind"
```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="REWIND"
        app:icon="@android:drawable/ic_media_rew" />

```

```

<Button
    android:id="@+id/stop"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="STOP"
    app:icon="@android:drawable/ic_media_pause" />

```

```

<Button
    android:id="@+id/restart"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="RESTART"
    app:icon="@android:drawable/ic_menu_rotate" />

```

```

</LinearLayout>

```

Output Snapshots:







