

## Activity\_main.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:orientation="vertical"

    tools:context=".MainActivity">

    <!--edit text for our source location-->

    <EditText

        android:id="@+id/idEdtSource"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:layout_margin="20dp"

        android:hint="Source"

        android:padding="8dp" />

    <!--edit text for our destination location-->

    <EditText

        android:id="@+id/idEdtDestination"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:layout_margin="20dp"

        android:hint="Destination"

        android:padding="8dp" />

    <!--button to draw route on maps-->

    <Button

        android:id="@+id/idBtnTrack"
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp"
    android:background="@color/purple_500"
    android:padding="8dp"
    android:text="Show Track"
    android:textAllCaps="false"
    android:textColor="@color/white" />
```

```
</LinearLayout>
```

```
//MainActivity.java
```

```
package com.example.practical32location;
```

```
import android.content.ActivityNotFoundException;
```

```
import android.content.Intent;
```

```
import android.net.Uri;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.EditText;
```

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

```
public class MainActivity extends AppCompatActivity {
```

```
    // creating variables for
```

```
    // edit texts and button.
```

```
    EditText sourceEdt, destinationEdt;
```

```
    Button trackBtn;
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    // initializing our edit text and buttons  
    sourceEdt = findViewById(R.id.idEdtSource);  
    destinationEdt = findViewById(R.id.idEdtDestination);  
    trackBtn = findViewById(R.id.idBtnTrack);  
    // adding on click listener to our button.  
    trackBtn.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            // calling a method to draw a track on google maps.  
            drawTrack(sourceEdt.getText().toString(), destinationEdt.getText().toString());  
        }  
    });  
}  
  
private void drawTrack(String source, String destination) {  
    try {  
        // create a uri  
        Uri i = Uri.parse("https://www.google.co.in/maps/dir/" + source + "/" + destination);  
        // initializing a intent with action view.  
        Intent intent = new Intent(Intent.ACTION_VIEW, i);  
        // below line is to set maps package name  
        intent.setPackage("com.google.android.apps.maps");  
  
        // below line is to set flags  
        intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);  
  
        // start activity
```

```
        startActivity(intent);
    } catch (ActivityNotFoundException e) {
        // when the google maps is not installed on users device
        // we will redirect our user to google play to download google maps.
        Uri uri =
Uri.parse("https://play.google.com/store/apps/details?id=com.google.android.apps.maps");

        // initializing intent with action view.
        Intent i = new Intent(Intent.ACTION_VIEW, uri);
        // set flags
        i.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
        // to start activity
        startActivity(i);
    }
}
}
```

## MainActivity.java

```
package com.example.practical32location;

import android.content.ActivityNotFoundException;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    // creating variables for
    // edit texts and button.
    EditText sourceEdt, destinationEdt;
    Button trackBtn;

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

        // initializing our edit text and buttons
        sourceEdt = findViewById(R.id.idEdtSource);
        destinationEdt = findViewById(R.id.idEdtDestination);
```

```

trackBtn = findViewById(R.id.idBtnTrack);

// adding on click listener to our button.
trackBtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        // calling a method to draw a track on google maps.
        drawTrack(sourceEdt.getText().toString(), destinationEdt.getText().toString());
    }
});
}

private void drawTrack(String source, String destination) {
    try {
        // create a uri
        Uri i = Uri.parse("https://www.google.co.in/maps/dir/" + source + "/" + destination);

        // initializing a intent with action view.
        Intent intent = new Intent(Intent.ACTION_VIEW, i);

        // below line is to set maps package name
        intent.setPackage("com.google.android.apps.maps");

        // below line is to set flags
        intent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);

        // start activity
        startActivity(intent);
    } catch (ActivityNotFoundException e) {
        // when the google maps is not installed on users device
        // we will redirect our user to google play to download google maps.
    }
}

```

```
Uri uri =  
Uri.parse("https://play.google.com/store/apps/details?id=com.google.android.apps.maps");
```

```
// initializing intent with action view.
```

```
Intent i = new Intent(Intent.ACTION_VIEW, uri);
```

```
// set flags
```

```
i.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK);
```

```
// to start activity
```

```
startActivity(i);
```

```
}
```

```
}
```

```
}
```