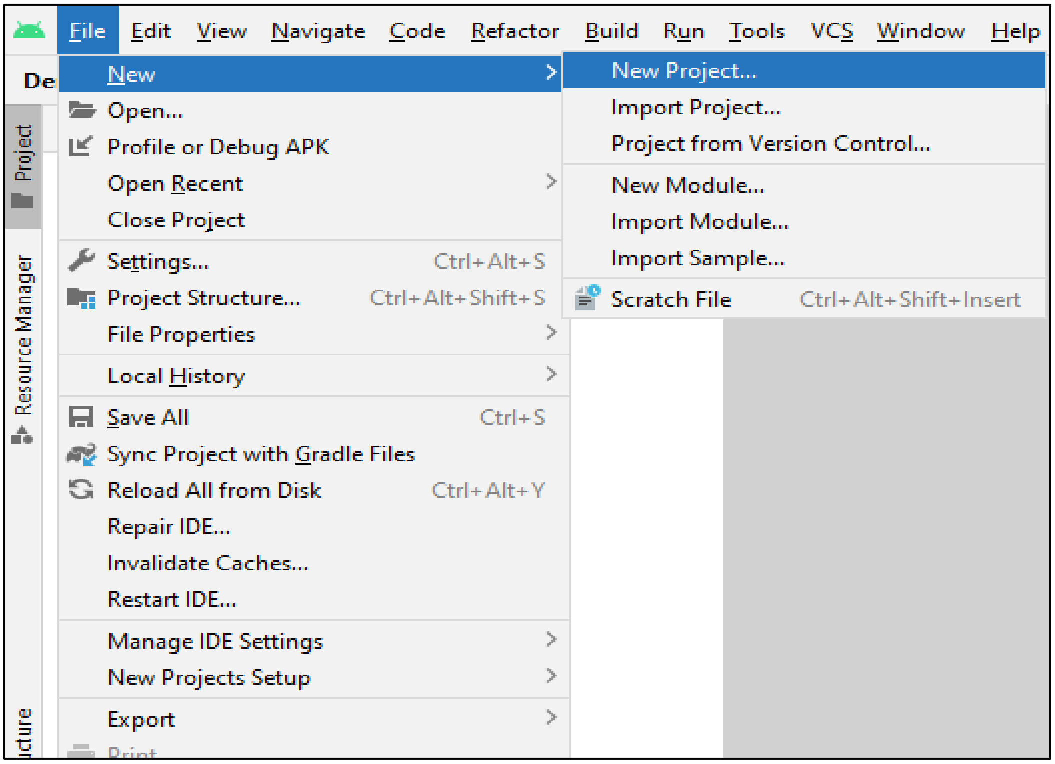
Extra Ex 1: Working with Intent

Introduction

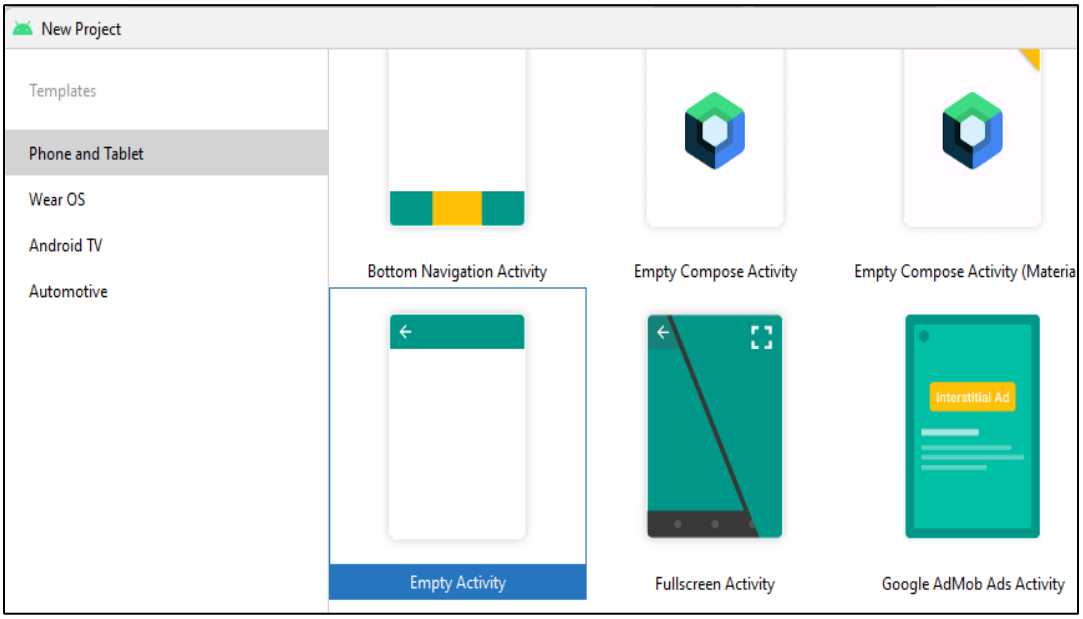
The message delivered between Android components, including activities, content providers, broadcast receivers, services, etc., is known as an intent.
To start activities, broadcast receivers, etc., it is typically used in conjunction with the startActivity() method.

Let’s get Started:

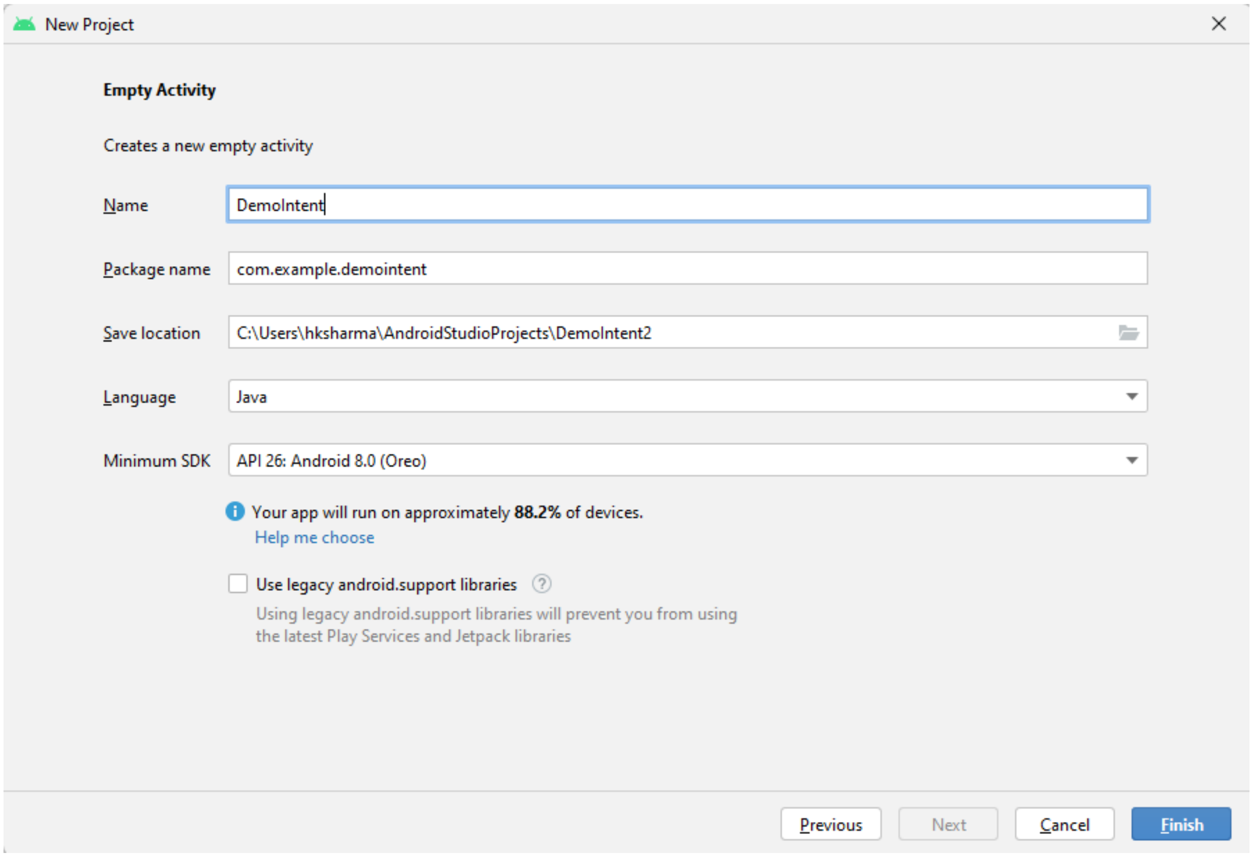
Step 1: Create a New Project in Android Studio as shown below



Step 2: Select Empty Activity as shown below



Step 3: Provide a Project Name as shown below



New Project

Empty Activity

Creates a new empty activity

Name: DemoIntent

Package name: com.example.demointent

Save location: C:\Users\hksharma\AndroidStudioProjects\DemoIntent2

Language: Java

Minimum SDK: API 26: Android 8.0 (Oreo)

Your app will run on approximately **88.2%** of devices.
Help me choose

☐ Use legacy android.support libraries

Using legacy android.support libraries will prevent you from using
the latest Play Services and Jetpack libraries

Step 4: Update MainActivity.java as per the code given below

```
package com.example.demointent;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button btnNext= findViewById(R.id.btnNext);
        btnNext.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intentNext;
                intentNext = new Intent(MainActivity.this,
SecondActivity.class);
                startActivity(intentNext);
            }
        });
    }
}
```

Step 5: Update activity_main.xml for Main Activity as per the code given below

```
<?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"
    android:gravity="center"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Main Activity"
        android:textSize="19sp"/>
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="NEXT"
        android:id="@+id/btnNext"/>

</LinearLayout>
```

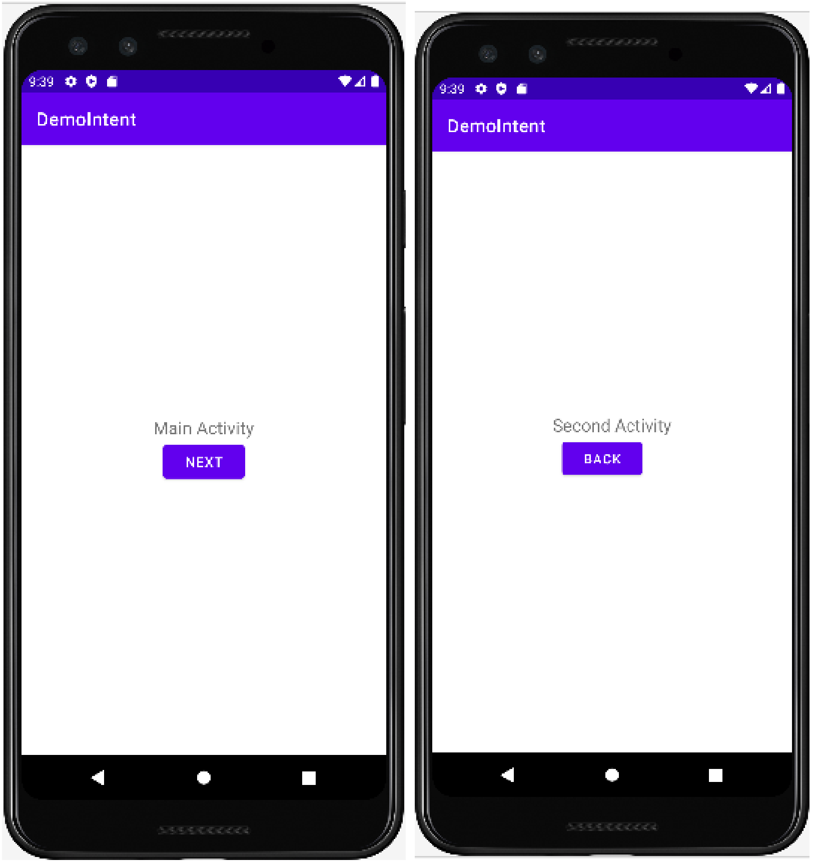
Step 6: Create second Activity SecondActivity.java as per the code given below

```java
package com.example.demointent;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class SecondActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Button btnBack = findViewById(R.id.btnBack);
        btnBack.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intentBack = new
Intent(SecondActivity.this,MainActivity.class);
                startActivity(intentBack);
            }
        });
    }
}
```

Step 7: Update activity_Second.xml for Second Activity as per the code given below

```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:gravity="center"
    android:orientation="vertical"
    tools:context=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Second Activity"
        android:textSize="19sp"
        />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="BACK"
        android:layout_marginRight="11dp"
        android:layout_marginBottom="11dp"
        android:id="@+id/btnBack"/>

</LinearLayout>
```

Step 8: Check Output on Android Emulator and it should look like as given below



Voila!! We have successfully completed this lab.