CO 3

2. Implement Intent to navigate between multiple activities

Main Activity.java

```java
package com.example.implicitintents;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {
    Button view,dial,email;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
        view=(Button)findViewById(R.id.btview);
        dial=(Button)findViewById(R.id.btdial);
        email=(Button)findViewById(R.id.btemail);

        view.setOnClickListener(new View.OnClickListener() {
            @Override
```

```java
    public void onClick(View v) {

      try {

        Intent i=new Intent(Intent.ACTION_VIEW, Uri.parse("http://www.javatpoint.com"));

        startActivity(i);

      }catch(Exception e){

        Toast.makeText(getApplicationContext(),e.toString(),Toast.LENGTH_SHORT).show();

      }


    }

});

dial.setOnClickListener(new View.OnClickListener() {

  @Override

  public void onClick(View v) {

    try {

      Intent dialIntent = new Intent(Intent.ACTION_DIAL, Uri.parse("tel:9876543210"));

      startActivity(dialIntent);

    } catch (Exception e) {

      Toast.makeText(getApplicationContext(), e.toString(),

          Toast.LENGTH_SHORT).show();

    }

  }

});

email.setOnClickListener(new View.OnClickListener() {

  @Override

  public void onClick(View v) {

    Intent email = new Intent(Intent.ACTION_SEND);


    startActivity(Intent.createChooser(email, "Choose an Email client:"));

  }
```

```
        });

    }

}
```

XML

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

  <Button
    android:id="@+id/btview"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="View"
    tools:layout_editor_absoluteX="63dp"
    tools:layout_editor_absoluteY="372dp" />

  <Button
    android:id="@+id/btdial"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Dial"
    android:layout_toRightOf="@+id/btview"
    android:layout_marginLeft="25dp"
    tools:layout_editor_absoluteX="96dp"
    tools:layout_editor_absoluteY="332dp" />
```

```xml
    <Button

        android:id="@+id/btemail"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Email"

        android:layout_toRightOf="@id/btdial"

        android:layout_marginLeft="50dp"

        tools:layout_editor_absoluteX="67dp"

        tools:layout_editor_absoluteY="235dp" />


</RelativeLayout>
```

Manifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.implicitintents">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.ImplicitIntents">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
```
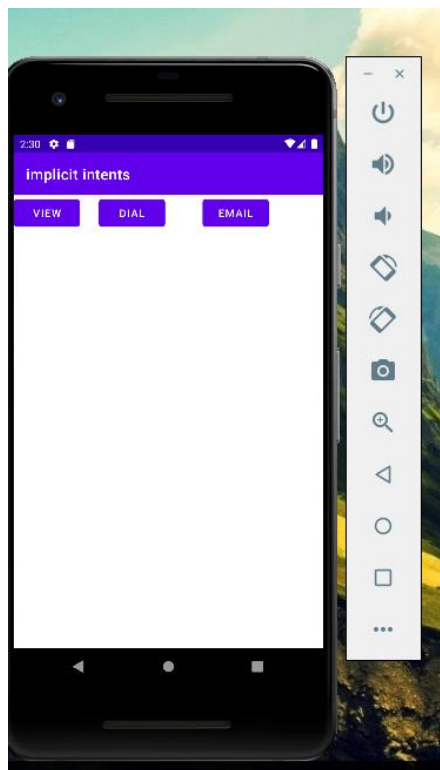
```
            <category android:name="android.intent.category.LAUNCHER" />

        </intent-filter>

    </activity>

  </application>


</manifest>
```

OUTPUT

4. Implement Options Menu to navigate to activities

XML 1

```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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

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

Sampleview.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
<item android:id="@+id/item1"
    android:title="item1"/>
    <item android:id="@+id/item2"
        android:title="item2"
        app:showAsAction="ifRoom"
        android:icon="@drawable/ic_launcher_background"/>
    <item android:id="@+id/item3"
        android:title="item3"
        app:showAsAction="ifRoom">
        <menu>
<item android:id="@+id/subitem1"
        android:title="Sub1"/>
    <item android:id="@+id/subitem2"
        android:title="Sub2"/>
</menu>
</item>
</menu>
```

XML 2

```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"
```

```xml
    android:layout_height="match_parent"

    tools:context=".MainActivity2">



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

JAVA 1

```java
package com.example.optionsmenu;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

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

  @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater inflater=getMenuInflater();
    inflater.inflate(R.menu.samplemenu,menu);
```

```java
        return true;
    }


    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId())
        {
            case R.id.item1:
                Intent i=new Intent(this,MainActivity2.class);
                startActivity(i);
                break;
            case R.id.item2:
                Toast.makeText(getApplicationContext(),"item2",Toast.LENGTH_SHORT).show();
                break;
            case R.id.subitem1:
                Toast.makeText(getApplicationContext(),"subitem1",Toast.LENGTH_SHORT).show();
                break;
            case R.id.subitem2:
                Toast.makeText(getApplicationContext(),"subitem2",Toast.LENGTH_SHORT).show();
                break;



        }
        return true;
    }
}
```
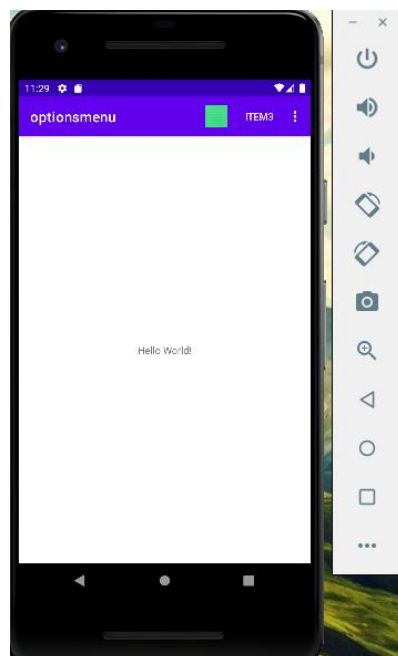
JAVA 2

```java
package com.example.optionsmenu;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
    }
}
```

OUTPUT

5. Develop an application that uses ArrayAdapter with ListView

XML

```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:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Week Days"
        android:textSize="20sp"
        android:textColor="#4A56C3"/>

    <ListView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/iv"
        android:divider="@color/purple_500"
        android:dividerHeight="3dp"/>

</LinearLayout>
```

textview.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:textColor="#B80909"
    android:textStyle="bold"
    android:textSize="25dp">
 </TextView>
```

JAVA

```java
package com.example.array;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    String s[]={"Monday","Tuesday","Wednesday","Thursday","Friday","Saturday","Sunday"};
    ListView lv;
```

```java
        @Override
        protected void onCreate(Bundle savedInstanceState) {

            super.onCreate(savedInstanceState);

            setContentView(R.layout.activity_main);

            lv=(ListView) findViewById(R.id.iv);

            ArrayAdapter<String>adapter=new ArrayAdapter<String>(this,R.layout.textview,s);

            lv.setAdapter(adapter);

            lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {

                @Override
                public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

Toast.makeText(getApplicationContext(),lv.getItemAtPosition(position).toString(),Toast.LENGTH_SH
ORT).show();


                }
            });
        }
}
```

OUTPUT