1. Create an app to navigate from one activity to another using an intent object and passing data

Activity_main.xml:-

```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">

    <EditText
        android:id="@+id/name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.8"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.238"
        tools:ignore="SpeakableTextPresentCheck" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/age"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.805"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.377"
        tools:ignore="SpeakableTextPresentCheck" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="NAME"
        app:layout_constraintBottom_toBottomOf="@+id/name"
```

```xml
            app:layout_constraintEnd_toStartOf="@+id/name"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="@+id/name" />

        <TextView
            android:id="@+id/textView2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginEnd="20dp"
            android:layout_marginRight="20dp"
            android:text="Age"
            app:layout_constraintBottom_toBottomOf="@+id/age"
            app:layout_constraintEnd_toStartOf="@+id/age"
            app:layout_constraintHorizontal_bias="0.58"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="parent"
            app:layout_constraintVertical_bias="1.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_main2.xml:-
```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=".MainActivity2">

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="14sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.227" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="14sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView6"
        app:layout_constraintVertical_bias="0.105" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:-

```java
package com.durgesh.onetoanotheractivity;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

    private EditText editText1,editText2;
    private Button button;
    private String name;
    private Integer age;

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

        editText1 = findViewById(R.id.name);
        editText2 = findViewById(R.id.age);
        button = findViewById(R.id.button);

        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                sendData();
            }
        });
    }
    public void sendData()
    {
        name=editText1.getText().toString().toString().trim();
        age=Integer.parseInt(editText2.getText().toString().trim());

        Intent i=new Intent(MainActivity.this,MainActivity2.class);

        i.putExtra(MainActivity2.NAME,name);
        i.putExtra(MainActivity2.AGE,age);

        startActivity(i);
    }

}
```

MainActivity2.java:-

```java
package com.durgesh.onetoanotheractivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {

    public static final String NAME="NAME";
    public static final String AGE="AGE";

    private String name;
    private int age;


    private TextView textView1,textView2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main4);

        textView1=findViewById(R.id.textView6);
        textView2=findViewById(R.id.textView5);

        Intent i=getIntent();
        name=i.getStringExtra(NAME);
        age=i.getIntExtra(AGE,0);

        textView1.setText("Your Name is "+name);
        textView2.setText("Your Age is "+age);

    }
}
```

AndroidMainfest.xml:-

```xml
<activity
    android:name=".MainActivity2"
    android:exported="true"
    android:label="Second Activity"
    android:parentActivityName=".MainActivity"
    />
```

OneToAnotherActivity

NAME   Durgesh

Age   23

SUBMIT

12:16

Second Activity

Your Name is Durgesh

Your Age is 23

12:17

Launch succ