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

```
Activity_main.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"
```

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

