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/an-
droid"
  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="Welcome To First Page"
    android:textSize="24sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintHorizontal bias="0.476"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.24" />
  <EditText
    android:id="@+id/editTextTextPersonName"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:ems="10"
    android:hint="Enter Your Name"
    android:inputType="textPersonName"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.327"/>
  <EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:ems="10"
    android:hint="Enter USN"
    android:inputType="textPersonName"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.502"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.431" />
  <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"
    app:layout_constraintVertical_bias="0.556" />
```

</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/an-
droid"
  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/textView"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Welcome To Second Activity"
    android:textSize="24sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.224" />
  <TextView
    android:id="@+id/textView2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:textSize="20sp"
    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="0.339" />
  <TextView
    android:id="@+id/textView3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:textSize="20sp"
    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="0.411" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

```
MainActivity.java:-
package com.durgesh.program 1;
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 Button button;
  private EditText editText1;
  private EditText editText2;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    button=findViewById(R.id.button);
    editText1=findViewById(R.id.editTextTextPersonName);
    editText2=findViewById(R.id.editTextTextPersonName2);
    button.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
         String name=editText1.getText().toString();
         String usn=editText2.getText().toString();
         Intent intent=new Intent(MainActivity.this,MainActivity2.class);
         intent.putExtra("NAME",name);
         intent.putExtra("USN",usn);
         startActivity(intent);
    });
```

```
MainActivity2.java:-
package com.durgesh.program 1;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
  private TextView textView2;
  private TextView textView3;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main2);
    textView2=findViewById(R.id.textView2);
    textView3=findViewById(R.id.textView3);
    Intent intent=getIntent();
    String name=intent.getStringExtra("NAME");
    String usn=intent.getStringExtra("USN");
    textView2.setText("Your Name is "+name);
textView3.setText("Your USN is "+usn);
```

