File Name: AssignmentNo1

Open new project with java and select language Java

Create new .xml and .class files as below by using the menu on left

**.xml files(Layout)**

activity\_home\_page

<?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=".HomePageActivity">  
  
 <Button  
 android:id="@+id/etReturn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="NEXT"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/tvSuccessInfo"  
 app:layout\_constraintVertical\_bias="0.532"  
 tools:ignore="NotSibling" />  
  
 <TextView  
 android:id="@+id/tvSuccessInfo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="WELCOME TO MY APP"  
 android:textColor="@color/black"  
 android:textSize="24sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

activity\_main

<?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/etPassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:autofillHints=""  
 android:ems="10"  
 android:hint="Enter password(123456)"  
 android:inputType="numberPassword"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/etName"  
 app:layout\_constraintVertical\_bias="0.064" />  
  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Login"  
 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/etPassword"  
 app:layout\_constraintVertical\_bias="0.098" />  
  
 <EditText  
 android:id="@+id/etName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Enter name(Sameer)"  
 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="0.326"  
 android:autofillHints="" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

activity\_direction

<?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=".Direction">  
  
 <Button  
 android:id="@+id/etNext"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Next Page"  
 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/tvSuccessInfo"  
 app:layout\_constraintVertical\_bias="0.606"  
 tools:ignore="NotSibling" />  
  
 <TextView  
 android:id="@+id/tvSuccessInfo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-black"  
 android:text="DIRECTIONS"  
 android:textColor="@color/black"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.467" />  
</androidx.constraintlayout.widget.ConstraintLayout>

activity\_thank

<?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=".ThankYou">  
  
 <Button  
 android:id="@+id/etReturn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="First Page"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.217"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/tvSuccessInfo"  
 app:layout\_constraintVertical\_bias="0.607"  
 tools:ignore="NotSibling" />  
  
 <Button  
 android:id="@+id/etExit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Exit"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.808"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/tvSuccessInfo"  
 app:layout\_constraintVertical\_bias="0.607"  
 tools:ignore="NotSibling" />  
  
 <TextView  
 android:id="@+id/tvSuccessInfo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:fontFamily="sans-serif-black"  
 android:text="THANK YOU"  
 android:textColor="@color/black"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**.class files(java com.example.assignmentno1)**

HomePageActivity

package com.example.assignmentno1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
  
public class HomePageActivity extends AppCompatActivity {  
 private Button eReturn;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_home\_page*);  
 eReturn = findViewById(R.id.*etReturn*);  
 eReturn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 startActivity(new Intent(HomePageActivity.this, MainActivity.class));  
 }  
  
  
 });  
 if (getIntent().getBooleanExtra("EXIT", false))  
 {  
 finish();  
 }  
  
 }  
}

MainActivity

/\* NAME="Me" PASSWORD="123456" \*/  
  
package com.example.assignmentno1;  
  
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;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 /\* Define the UI elements \*/  
 private EditText eName;  
 private EditText ePassword;  
 private Button eLogin;  
  
 String userName = "";  
 String userPassword = "";  
  
 /\* Change Login Credentials here as per required \*/  
 class Credentials  
 {  
 String name = "Me";  
 String password = "123456";  
 }  
  
 boolean isValid = false;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 eName = findViewById(R.id.*etName*);  
 ePassword = findViewById(R.id.*etPassword*);  
 eLogin = findViewById(R.id.*btnLogin*);  
  
  
 eLogin.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 /\* Obtain user inputs \*/  
 userName = eName.getText().toString();  
 userPassword = ePassword.getText().toString();  
  
 /\* Check if the user inputs are empty \*/  
 if(userName.isEmpty() || userPassword.isEmpty())  
 {  
  
 Toast.*makeText*(MainActivity.this, "Please enter name and password!", Toast.*LENGTH\_LONG*).show();  
  
 }else {  
  
 isValid = validate(userName, userPassword);  
  
  
 if (!isValid) {  
 Toast.*makeText*(MainActivity.this, "Incorrect credentials, please try again!", Toast.*LENGTH\_LONG*).show();  
 }  
  
  
 else {  
  
  
 startActivity(new Intent(MainActivity.this, Direction.class));  
 }  
  
 }  
 }  
 });  
 }  
  
  
 private boolean validate(String userName, String userPassword)  
 {  
  
 Credentials credentials = new Credentials();  
  
  
 if(userName.equals(credentials.name) && userPassword.equals(credentials.password))  
 {  
 return true;  
 }  
  
 return false;  
 }  
}

DirectionPageActivity

package com.example.assignmentno1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
  
public class Direction extends AppCompatActivity {  
 private Button eNext;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_direction*);  
 eNext = findViewById(R.id.*etNext*);  
 eNext.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 startActivity(new Intent(Direction.this, ThankYou.class));  
 }  
  
  
 });  
 }  
}

ThankYouActivity

package com.example.assignmentno1;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
  
public class ThankYou extends AppCompatActivity {  
 private Button eReturn;  
 private Button eExit;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_thank*);  
 eReturn = findViewById(R.id.*etReturn*);  
 eReturn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 startActivity(new Intent(ThankYou.this, HomePageActivity.class));  
 }  
  
  
 });  
 eExit = findViewById(R.id.*etExit*);  
 eExit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent intent = new Intent(ThankYou.this, HomePageActivity.class);  
 intent.setFlags(Intent.*FLAG\_ACTIVITY\_CLEAR\_TOP*);  
 intent.putExtra("EXIT", true);  
 startActivity(intent);  
 }  
  
  
 });  
 }  
}