**Experiment 7**

1. **Development of an android application to store the details of an employee and further display the details in another activity using shared preference objects.**

**Activity\_main.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">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv1"  
 android:text="App Specific Storage"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="50dp"  
 android:textSize="40dp"  
 android:textColor="@color/black"  
 />  
  
 <EditText  
 android:id="@+id/ed1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="232dp"  
 android:layout\_centerHorizontal="true" />  
  
 <EditText  
 android:id="@+id/ed2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="292dp"  
 android:layout\_centerHorizontal="true" />  
 <Button  
 android:id="@+id/btn1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="392dp"  
 android:text="SaVE"  
 android:layout\_centerHorizontal="true" />  
  
 <Button  
 android:id="@+id/btn2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="500dp"  
 android:text="LOAD"  
 android:layout\_centerHorizontal="true" />  
  
</RelativeLayout>

**MainActivity.java**

package com.example.sharedpreferences;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 public static final String *MYPREFERENCES*="MyPref";  
 public static final String *Name*="Namekey";  
 public static final String *Phoneno*="Phonekey";  
 public static final String *Email*="Emailkey";  
  
 Button b1;  
 EditText Edd1,Edd2,Edd3;  
 SharedPreferences sh;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Edd1=(EditText) findViewById(R.id.*ed1*);  
 Edd2=(EditText) findViewById(R.id.*ed2*);  
 Edd3=(EditText) findViewById(R.id.*ed3*);  
 b1=(Button) findViewById(R.id.*btn1*);  
 sh = getSharedPreferences(*MYPREFERENCES*,*MODE\_PRIVATE*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String n = Edd1.getText().toString();  
 String e = Edd1.getText().toString();  
 String p = Edd1.getText().toString();  
 SharedPreferences.Editor editor = sh.edit();  
 editor.putString(*Name*,n);  
 editor.putString(*Phoneno*,p);  
 editor.putString(*Email*,e);  
 editor.commit();  
  
 Toast.*makeText*(MainActivity.this, "Information is Stored Successfully", Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
  
 }  
}

Graphical user interface, text, application

Description automatically generated

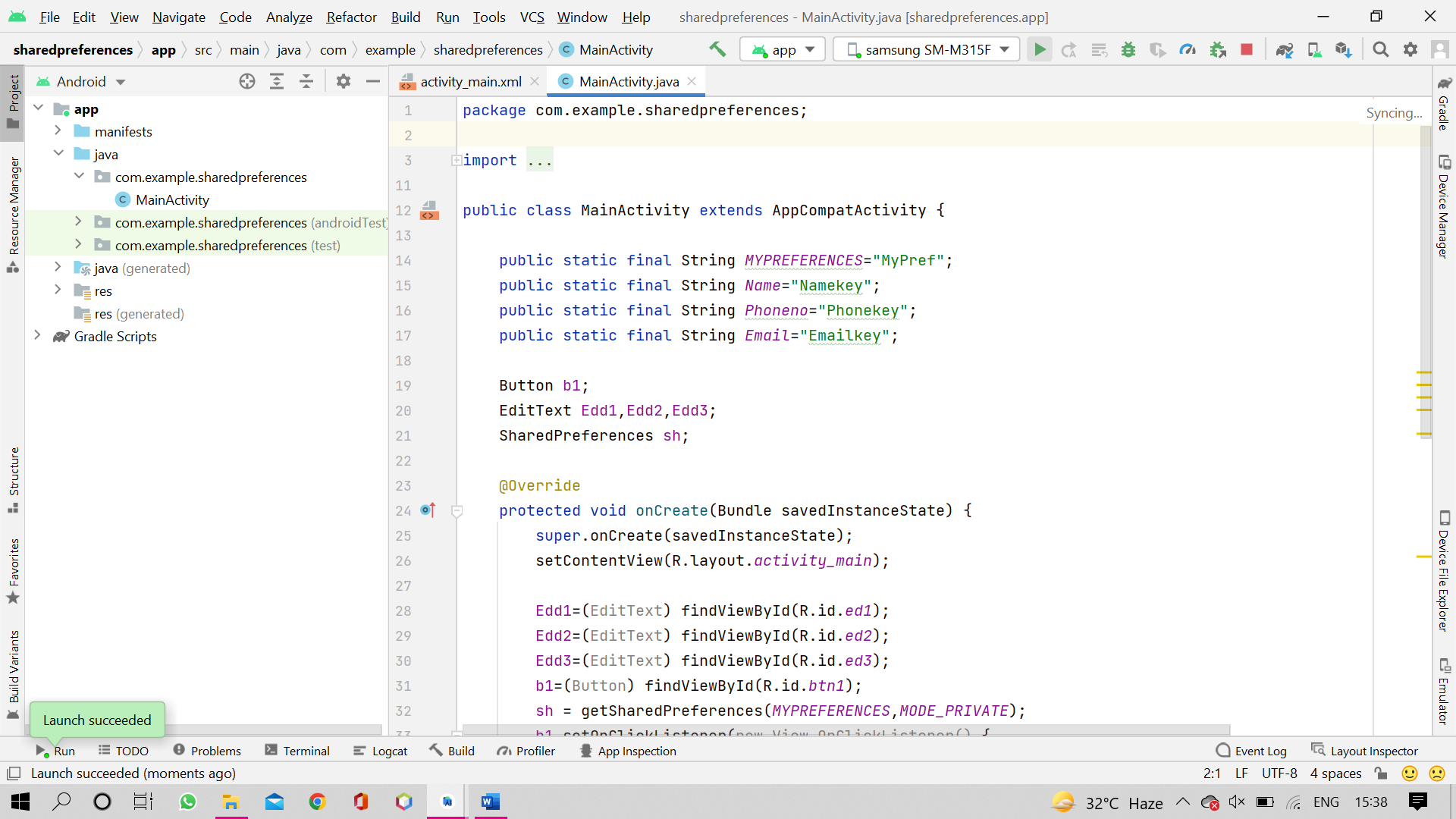
**2.) Development of an android application to save data in a text file and later retrieve it and display it on the toast message**

**Activity\_main.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">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Shared Preferences"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="50dp"  
 android:id="@+id/tv1"  
  
 />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/ed1"  
 android:inputType="text"  
 android:hint="Name"  
 android:layout\_below="@+id/tv1"  
 android:layout\_marginTop="20dp"  
  
  
 />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/ed2"  
 android:inputType="number"  
 android:hint="Phone Number"  
 android:layout\_below="@+id/ed1"  
 android:layout\_marginTop="20dp"  
  
  
 />  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/ed3"  
 android:hint="Email"  
 android:inputType="textEmailAddress"  
 android:layout\_below="@+id/ed2"  
 android:layout\_marginTop="20dp"  
 />  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/btn1"  
 android:hint="Submit"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="50dp"  
 android:layout\_below="@+id/ed3"  
 />  
</RelativeLayout>

MainActivity.java

package com.example.sharedpreferences;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.SharedPreferences;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
  
 public static final String *MYPREFERENCES*="MyPref";  
 public static final String *Name*="Namekey";  
 public static final String *Phoneno*="Phonekey";  
 public static final String *Email*="Emailkey";  
  
 Button b1;  
 EditText Edd1,Edd2,Edd3;  
 SharedPreferences sh;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 Edd1=(EditText) findViewById(R.id.*ed1*);  
 Edd2=(EditText) findViewById(R.id.*ed2*);  
 Edd3=(EditText) findViewById(R.id.*ed3*);  
 b1=(Button) findViewById(R.id.*btn1*);  
 sh = getSharedPreferences(*MYPREFERENCES*,*MODE\_PRIVATE*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String n = Edd1.getText().toString();  
 String e = Edd1.getText().toString();  
 String p = Edd1.getText().toString();  
 SharedPreferences.Editor editor = sh.edit();  
 editor.putString(*Name*,n);  
 editor.putString(*Phoneno*,p);  
 editor.putString(*Email*,e);  
 editor.commit();  
  
 Toast.*makeText*(MainActivity.this, "Information is Stored Successfully", Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
  
 }  
}



Graphical user interface, text, application, chat or text message

Description automatically generated