|  |  |
| --- | --- |
| Practical no. 4  Exercise :  Q 2 : Write a program to display student name and marks. | Output : |
| <?xml version="1.0" encoding="utf-8"?> <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:paddingLeft="16dp"  android:paddingRight="16dp"  android:paddingTop="16dp"  tools:context=".MainActivity">   <TextView  android:id="@+id/student\_name"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_centerInParent="true"  android:text="Shreedhar Phase" />   <TextView  android:id="@+id/student\_marks"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_toRightOf="@+id/student\_name"  android:layout\_centerInParent="true"  android:paddingLeft="16dp"  android:text="99" />  </RelativeLayout> |

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| Practical no. 5  Exercise :  Q 1 : Write a program to place Name, Age and mobile number linearly (Vertical) on the display screen using Linear layout. | Output : |
| <?xml version="1.0" encoding="utf-8"?> <LinearLayout 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"  android:paddingLeft="16dp"  android:paddingRight="16dp"  android:paddingTop="16dp"  android:orientation="vertical"  tools:context=".MainActivity">   <TextView  android:id="@+id/student\_name"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Name:Shree Phase" />     <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Age: 20" />   <TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Mobile Number: 9373010729" />  </LinearLayout> |

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| Practical no. 6  Exercise :  Q 1: Write a program to display 10 students basic information in a table form using Table layout. | Output : |
| <?xml version="1.0" encoding="utf-8"?> <TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:collapseColumns="\*"  android:shrinkColumns="\*"  tools:context=".MainActivity">   <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:gravity="center\_horizontal">   <TextView  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="10 Students Basic Information"  android:textColor="#86AD33"  android:textSize="20dp"  android:textStyle="bold" />   </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">  <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student Numbers"  android:textColor="#000"  android:textStyle="bold" />   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Name"  android:textColor="#000"  android:textStyle="bold" />   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="RollNo"  android:textColor="#000"  android:textStyle="bold" />   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Age"  android:textColor="#000"  android:textStyle="bold" />   </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="Student 1:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="shree"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="16"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="20"/>   </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 2:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="shubham"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="18"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="19"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 3:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="ranjit"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="01"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="20"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 4:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="bhaskar"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="08"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="20"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 5:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="vaishnavi"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="17"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="20"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 6:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="chinmai"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="21"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="19"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 7:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="samruddhi"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="27"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="18"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 8:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="parth"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="12"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="20"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 9:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="vivek"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="02"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="19"/>  </TableRow>  <TableRow  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content">   <TextView  android:layout\_width="0dp"  android:layout\_weight="1"  android:text="Student 10:"  android:textColor="#86AD33"  android:textStyle="bold" />   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="raj"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="15"/>   <EditText  android:layout\_width="0dp"  android:layout\_weight="1"  android:layout\_height="wrap\_content"  android:text="19"/>  </TableRow>  </TableLayout> |

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| Practical no. 7  Exercise :  Q 1 : Write a program to accept username and password from the end user using Text View and Edit Text. | Output : |
| **activity\_main.xml**    <?xml version="1.0" encoding="utf-8"?>  <TableLayout 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"      android:padding="50dp"      tools:context=".MainActivity">        <TextView          android:layout\_width="wrap\_content"          android:layout\_height="wrap\_content"          android:gravity="center"          android:textSize="25dp"          android:text="Login Page" />        <TableRow          android:layout\_width="match\_parent"          android:layout\_height="wrap\_content"          android:gravity="center\_horizontal">            <TextView              android:layout\_height="wrap\_content"              android:layout\_weight="1"              android:gravity="center"              android:text="Enter UserName:" />            <EditText              android:id="@+id/user"              android:layout\_height="wrap\_content"              android:layout\_weight="1"              android:hint="abc@gmail.com" />      </TableRow>          <TableRow          android:layout\_width="match\_parent"          android:layout\_height="wrap\_content"          android:gravity="center\_horizontal">            <TextView              android:layout\_height="wrap\_content"              android:layout\_weight="1"              android:gravity="center"              android:text="Enter Password:" />            <EditText              android:id="@+id/pass"              android:layout\_height="wrap\_content"              android:layout\_weight="1"              android:hint="1234" />      </TableRow>        <Button          android:id="@+id/btn1"          android:layout\_width="wrap\_content"          android:layout\_height="wrap\_content"          android:layout\_marginBottom="172dp"          android:text="Login" />    </TableLayout> |
| **MainActivity.java**  package com.example.helloword;  import androidx.appcompat.app.AppCompatActivity;    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 {  EditText user,pass;  Button b;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_main);  b= findViewById(R.id.btn1);  user = findViewById(R.id.user);  pass = findViewById(R.id.pass);  b.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  if(user.getText().toString().equals("Shree") & pass.getText().toString().equals("1234"))  {  Toast.makeText( getApplicationContext(),"Login Sucessful",Toast.LENGTH\_SHORT).show();  }  else  {  Toast.makeText( getApplicationContext(),"error",Toast.LENGTH\_SHORT).show();  }  }  });  }  } |  |

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| Practical no. 8  Exercise :  Q 1 :Write a program to create a first display screen of any search engine using Auto Complete Text View. | |
| **activity\_main.xml**  <?xml version="1.0" encoding="utf-8"?> <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:tools="http://schemas.android.com/tools"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity">   <AutoCompleteTextView  android:id="@+id/autoCompleteTextView"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_margin="16dp"  android:layout\_centerVertical="true"  android:hint="Search"  android:completionThreshold="1" />  </RelativeLayout> |  |
| **MainActivity.java**  package com.example.helloword;  import android.os.Bundle;  import android.widget.ArrayAdapter;  import android.widget.AutoCompleteTextView;  import androidx.appcompat.app.AppCompatActivity;  public class MainActivity extends AppCompatActivity {  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.activity\_main);  AutoCompleteTextView autoCompleteTextView = findViewById(R.id.autoCompleteTextView);  String[] suggestions = {"Google", "Bing", "Yahoo", "DuckDuckGo", "Ask"};  ArrayAdapter<String> adapter = new ArrayAdapter<>(this,  android.R.layout.simple\_dropdown\_item\_1line, suggestions);  autoCompleteTextView.setAdapter(adapter);  }  **}** |

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| Practical no. 11  Exercise :  Q 1 : Write a program to show five checkboxes and toast selected checkboxes. | |
| <LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:orientation="vertical">   <CheckBox  android:id="@+id/checkbox1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Checkbox 1"/>   <CheckBox  android:id="@+id/checkbox2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Checkbox 2"/>   <CheckBox  android:id="@+id/checkbox3"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Checkbox 3"/>   <CheckBox  android:id="@+id/checkbox4"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Checkbox 4"/>   <CheckBox  android:id="@+id/checkbox5"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Checkbox 5"/>  </LinearLayout> |  |
| **MainActivity.java**  package com.example.myapplication1; import android.os.Bundle; import android.view.View; import android.widget.CheckBox; import android.widget.Toast; import androidx.appcompat.app.AppCompatActivity;  public class MainActivity extends AppCompatActivity {  private CheckBox mCheckbox1, mCheckbox2, mCheckbox3, mCheckbox4, mCheckbox5;   @Override  protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_main*);  mCheckbox1 = findViewById(R.id.checkbox1);  mCheckbox2 = findViewById(R.id.checkbox2);  mCheckbox3 = findViewById(R.id.checkbox3);  mCheckbox4 = findViewById(R.id.checkbox4);  mCheckbox5 = findViewById(R.id.checkbox5);  }  private final View.OnClickListener onCheckboxClickListener = new View.OnClickListener() {  @Override  public void onClick(View view) {  StringBuilder selectedCheckboxes = new StringBuilder();  if (mCheckbox1.isChecked()) {  selectedCheckboxes.append(mCheckbox1.getText().toString());  selectedCheckboxes.append(", ");  }  if (mCheckbox2.isChecked()) {  selectedCheckboxes.append(mCheckbox2.getText().toString());  selectedCheckboxes.append(", ");  }  if (mCheckbox3.isChecked()) {  selectedCheckboxes.append(mCheckbox3.getText().toString());  selectedCheckboxes.append(", ");  }  if (mCheckbox4.isChecked()) {  selectedCheckboxes.append(mCheckbox4.getText().toString());  selectedCheckboxes.append(", ");  }  if (mCheckbox5.isChecked()) {  selectedCheckboxes.append(mCheckbox5.getText().toString());  selectedCheckboxes.append(", ");  }  if (selectedCheckboxes.length() > 0) {  selectedCheckboxes.delete(selectedCheckboxes.length() - 2, selectedCheckboxes.length() - 1);  String toastMessage = "Selected checkboxes: " + selectedCheckboxes.toString();  Toast.*makeText*(MainActivity.this, toastMessage, Toast.*LENGTH\_SHORT*).show();  }   }   };  } |

1. Write a program to create login form for student registration form.

MainActivity.xml code:

<?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"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="@drawable/background" tools:context=".MainActivity">

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/signin" android:text="Sign in" android:textColor="@color/white" android:textSize="35dp" android:textStyle="bold" android:layout\_margin="50dp" android:gravity="center"/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/username" android:layout\_below="@id/signin" android:background="#30ffffff" android:hint="Username" android:textColorHint="@color/white" android:textColor="@color/white"

android:layout\_margin="10dp" android:padding="20dp"

android:drawableLeft="@drawable/ic\_baseline\_person\_outline\_24" android:drawablePadding="20dp"/>

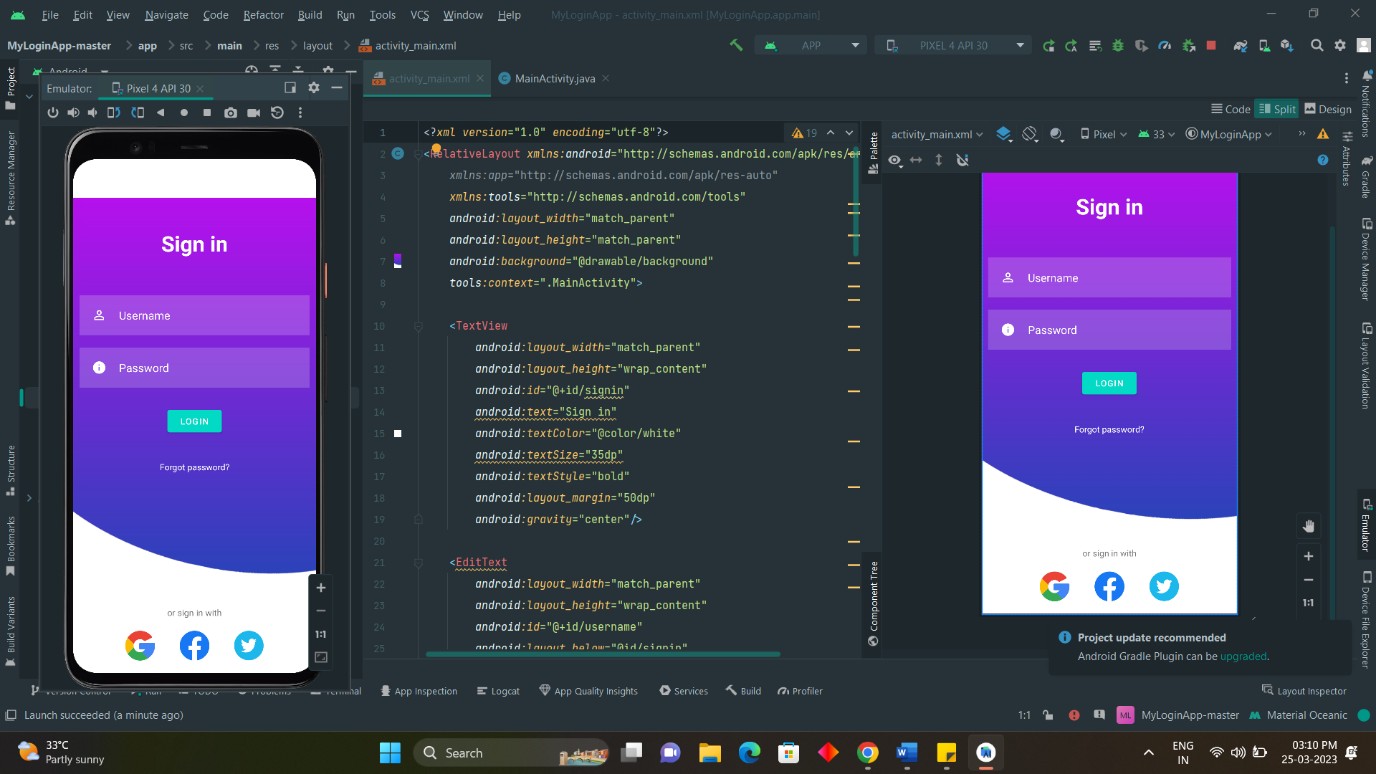
<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/password" android:layout\_below="@id/username" android:background="#30ffffff" android:hint="Password" android:textColorHint="@color/white" android:textColor="@color/white" android:layout\_margin="10dp" android:padding="20dp"

android:drawableLeft="@drawable/ic\_baseline\_info\_24" android:drawablePadding="20dp" android:inputType="textPassword"/>

<com.google.android.material.button.MaterialButton android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/loginbtn" android:layout\_below="@id/password" android:text="LOGIN"

android:backgroundTint="@color/design\_default\_color\_secondary" android:layout\_centerHorizontal="true" android:layout\_margin="20dp"/>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/forgotpass" android:layout\_below="@id/loginbtn" android:text="Forgot password?" android:textColor="@color/white" android:layout\_centerHorizontal="true" android:layout\_margin="20dp"/>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:id="@+id/others" android:layout\_above="@id/socialicons" android:text="or sign in with" android:layout\_centerHorizontal="true"/>

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:id="@+id/socialicons" android:layout\_alignParentBottom="true" android:gravity="center">

<ImageView android:layout\_width="48dp" android:layout\_height="48dp" android:layout\_margin="20dp"

android:src="@drawable/google"/>

<ImageView android:layout\_width="48dp" android:layout\_height="48dp" android:layout\_margin="20dp" android:src="@drawable/fb"/>

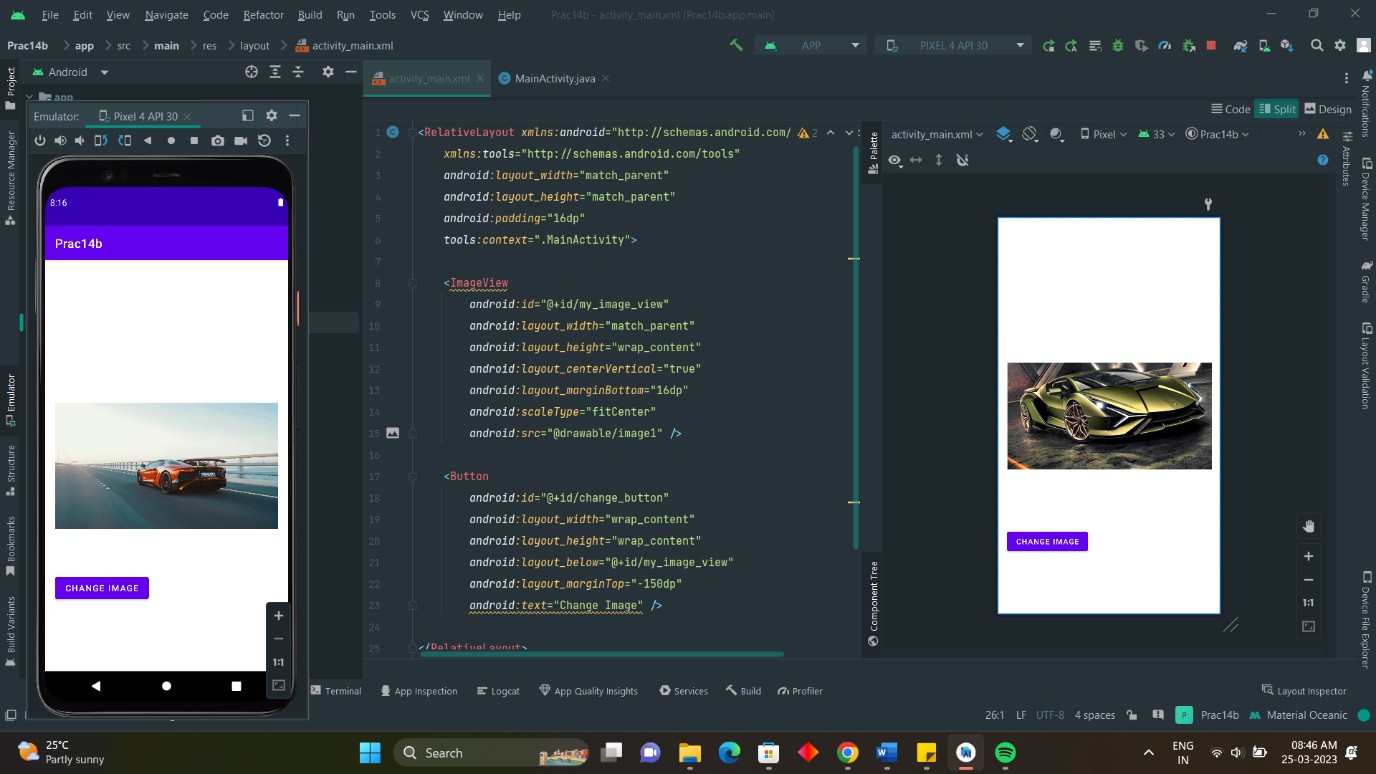
<ImageView android:layout\_width="48dp" android:layout\_height="48dp" android:layout\_margin="20dp" android:src="@drawable/twitter"/>

</LinearLayout>

</RelativeLayout>

Qyestion : Write a program to display image using Image View and the button named as “changed Image”. Once you click on button another image should get displayed.

MainActivity.xml code:

<RelativeLayout xmlns:android="<http://schemas.android.com/apk/res/android>" xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

android:padding="16dp" tools:context=".MainActivity">

<ImageView android:id="@+id/my\_image\_view" android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_centerVertical="true" android:layout\_marginBottom="16dp" android:scaleType="fitCenter" android:src="@drawable/image1" />

<Button android:id="@+id/change\_button" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:layout\_below="@+id/my\_image\_view" android:layout\_marginTop="-150dp" android:text="Change Image" />

</RelativeLayout>

MainActivity.java code:

package com.example.prac14b; import android.os.Bundle; import android.view.View; import android.widget.Button;

import android.widget.ImageView;

import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity { private ImageView myImageView;

private Button changeButton;

private boolean isImage1Displayed = true; @Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

myImageView = findViewById(R.id.my\_image\_view); changeButton = findViewById(R.id.change\_button);

changeButton.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View view) { if (isImage1Displayed) {

myImageView.setImageResource(R.drawable.image2); isImage1Displayed = false;

} else {

myImageView.setImageResource(R.drawable.image1); isImage1Displayed = true;

}

}});}}

Write a program to create Hello World Activity using all lifecycles methods to display messages sing Log.d.

Practical 17 MainActivity.xml code:

<?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"](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="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

MainActivity.java code:

package com.example.practical17;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import android.util.Log;

public class MainActivity extends AppCompatActivity {

private static final String TAG = "MainActivity";

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

Log.d(TAG, "onCreate: Hello World!");

}

@Override

protected void onStart() { super.onStart();

Log.d(TAG, "onStart: Activity started.");

}

@Override

protected void onResume() { super.onResume();

Log.d(TAG, "onResume: Activity resumed.");

}

@Override

protected void onPause() { super.onPause();

Log.d(TAG, "onPause: Activity paused.");

}

@Override

protected void onStop() { super.onStop();

Log.d(TAG, "onStop: Activity stopped.");

}

@Override

protected void onDestroy() { super.onDestroy();

Log.d(TAG, "onDestroy: Activity destroyed.");

}

@Override

protected void onRestart() { super.onRestart();

Log.d(TAG, "onRestart: Activity restarted.");

}

}

