**Roll No:**20BCE204

**Subject:** Mobile Operating System

**Practical No:** 6

**Aim:**

# Develop an application that uses GUI components, Font and Colors.

**Code:**

# Activity\_main.xml:

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android[="http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

xmlns:app[="http://schemas.android.com/apk/res](http://schemas.android.com/apk/res-auto)-[auto"](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:backgroundTint="#3D9FF6" tools:context=".MainActivity">

<TextView

android:id="@+id/textView" android:layout\_width="408dp" android:layout\_height="49dp" android:layout\_marginEnd="3dp" android:layout\_marginBottom="682dp" android:text="Welcome to Registration Form" android:textAlignment="center" android:textSize="24sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/textView2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="16dp" android:layout\_marginTop="25dp" android:layout\_marginEnd="354dp" android:layout\_marginBottom="637dp" android:text="Name:" android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<EditText

android:id="@+id/editTextText" android:layout\_width="314dp" android:layout\_height="44dp" android:layout\_marginStart="16dp" android:layout\_marginTop="11dp" android:layout\_marginEnd="15dp" android:layout\_marginBottom="626dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView2" app:layout\_constraintTop\_toBottomOf="@+id/textView" />

<TextView

android:id="@+id/textView3" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="35dp" android:layout\_marginTop="30dp" android:layout\_marginEnd="366dp" android:layout\_marginBottom="584dp" android:text="Email:" android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/textView2" />

<TextView

android:id="@+id/textView4" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginEnd="326dp" android:layout\_marginBottom="530dp" android:text="Collage:" android:textSize="20sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent" />

<EditText

android:id="@+id/editTextText3" android:layout\_width="314dp" android:layout\_height="45dp" android:layout\_marginStart="9dp" android:layout\_marginEnd="9dp" android:layout\_marginBottom="526dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView4" />

<TextView

android:id="@+id/textView5" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="7dp" android:layout\_marginTop="31dp" android:layout\_marginEnd="334dp" android:layout\_marginBottom="472dp" android:text="Roll No:" android:textSize="20sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView4" />

<EditText

android:id="@+id/editTextText4" android:layout\_width="317dp" android:layout\_height="51dp" android:layout\_marginStart="11dp" android:layout\_marginTop="11dp" android:layout\_marginEnd="6dp" android:layout\_marginBottom="464dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView5" app:layout\_constraintTop\_toBottomOf="@+id/editTextText3" />

<TextView

android:id="@+id/textView6" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="10dp" android:layout\_marginTop="36dp" android:layout\_marginEnd="337dp" android:layout\_marginBottom="416dp" android:text="Phone No:" android:textSize="20sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.137" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView5" app:layout\_constraintVertical\_bias="0.428" />

<EditText

android:id="@+id/editTextTextEmailAddress" android:layout\_width="319dp" android:layout\_height="50dp" android:layout\_marginStart="12dp" android:layout\_marginTop="5dp" android:layout\_marginEnd="12dp" android:ems="10" android:inputType="textEmailAddress"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText3" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView3" app:layout\_constraintTop\_toBottomOf="@+id/editTextText" />

<EditText

android:id="@+id/editTextPhone" android:layout\_width="295dp" android:layout\_height="43dp" android:layout\_marginStart="10dp" android:layout\_marginTop="12dp" android:layout\_marginEnd="7dp" android:layout\_marginBottom="408dp" android:ems="10" android:inputType="phone"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView6" app:layout\_constraintTop\_toBottomOf="@+id/editTextText4" />

<TextView

android:id="@+id/textView7" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="9dp" android:layout\_marginTop="36dp" android:layout\_marginEnd="323dp" android:layout\_marginBottom="348dp" android:text="Address:" android:textSize="20sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/textView6" />

<EditText

android:id="@+id/editTextTextPostalAddress" android:layout\_width="301dp" android:layout\_height="51dp" android:layout\_marginStart="13dp" android:layout\_marginTop="14dp" android:layout\_marginEnd="9dp" android:layout\_marginBottom="343dp" android:ems="10" android:inputType="textPostalAddress" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toEndOf="@+id/textView7"

app:layout\_constraintTop\_toBottomOf="@+id/editTextPhone" />

<Button

android:id="@+id/button" android:layout\_width="183dp" android:layout\_height="45dp" android:layout\_marginStart="107dp" android:layout\_marginTop="96dp" android:layout\_marginEnd="121dp" android:layout\_marginBottom="201dp" android:backgroundTint="#98DF36" android:text="Submit" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPostalAddress" />

</androidx.constraintlayout.widget.ConstraintLayout>

# MainActivity.java:

package com.example.practical\_6;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.net.Uri;

import android.os.Bundle; import android.view.View; import android.widget.Button; import android.widget.EditText;

import android.widget.ImageButton;

public class MainActivity extends AppCompatActivity { Button b;

EditText t1,t2,t3,t4,t5,t6; @Override

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

b=findViewById(R.id.button);

t1=findViewById(R.id.editTextText); t2=findViewById(R.id.editTextTextEmailAddress); t3=findViewById(R.id.editTextText3); t4=findViewById(R.id.editTextText4); t5=findViewById(R.id.editTextPhone); t6=findViewById(R.id.editTextTextPostalAddress);

Intent inte=new Intent(MainActivity.this,MainActivity2.class);

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

public void onClick(View view) { inte.putExtra("Name",t1.getText().toString()); inte.putExtra("Email",t2.getText().toString()); inte.putExtra("Collage",t3.getText().toString()); inte.putExtra("RollNo",t4.getText().toString()); inte.putExtra("Phone",t5.getText().toString()); inte.putExtra("Address",t6.getText().toString()); startActivity(inte);

}

});

}

}

# Activity\_Main2.xml:

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android[="http://schemas.android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

xmlns:app[="http://schemas.android.com/apk/res](http://schemas.android.com/apk/res-auto)-[auto"](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=".MainActivity2">

<TextView

android:id="@+id/textView8" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginStart="177dp" android:layout\_marginTop="16dp" android:layout\_marginEnd="159dp" android:layout\_marginBottom="696dp" android:text="Your Details" android:textSize="34sp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/editTextText2" android:layout\_width="380dp" android:layout\_height="51dp" android:layout\_marginStart="20dp" android:layout\_marginTop="22dp" android:layout\_marginEnd="11dp" android:layout\_marginBottom="12dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText5" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/textView8" />

<EditText

android:id="@+id/editTextText5" android:layout\_width="386dp" android:layout\_height="52dp" android:layout\_marginStart="20dp" android:layout\_marginTop="12dp" android:layout\_marginEnd="5dp" android:layout\_marginBottom="10dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText6" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/editTextText2" />

<EditText

android:id="@+id/editTextText6"

android:layout\_width="377dp" android:layout\_height="55dp" android:layout\_marginStart="20dp" android:layout\_marginTop="4dp" android:layout\_marginEnd="14dp" android:layout\_marginBottom="6dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText7" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/editTextText5" />

<EditText

android:id="@+id/editTextText7" android:layout\_width="376dp" android:layout\_height="48dp" android:layout\_marginStart="21dp" android:layout\_marginTop="1dp" android:layout\_marginEnd="14dp" android:layout\_marginBottom="15dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText8" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/editTextText6" />

<EditText

android:id="@+id/editTextText8" android:layout\_width="371dp" android:layout\_height="49dp" android:layout\_marginStart="21dp" android:layout\_marginTop="9dp" android:layout\_marginEnd="19dp" android:layout\_marginBottom="8dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toTopOf="@+id/editTextText9" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/editTextText7" />

<EditText

android:id="@+id/editTextText9" android:layout\_width="369dp" android:layout\_height="54dp" android:layout\_marginStart="18dp" android:layout\_marginTop="2dp" android:layout\_marginEnd="24dp" android:layout\_marginBottom="294dp" android:ems="10" android:inputType="text"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toBottomOf="@+id/editTextText8" />

</androidx.constraintlayout.widget.ConstraintLayout>

# MainActivity2.java:

package com.example.practical\_6;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.os.Bundle; import android.widget.EditText;

public class MainActivity2 extends AppCompatActivity { EditText t1,t2,t3,t4,t5,t6;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main2);

Intent inte=getIntent();

String a1=inte.getStringExtra("Name"); String a2=inte.getStringExtra("Email"); String a3=inte.getStringExtra("Collage"); String a4=inte.getStringExtra("RollNo"); String a5=inte.getStringExtra("Phone"); String a6=inte.getStringExtra("Address");

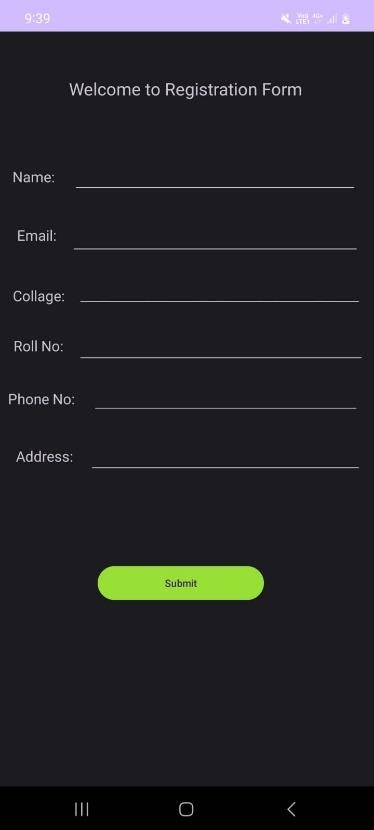
t1=findViewById(R.id.editTextText2); t2=findViewById(R.id.editTextText5); t3=findViewById(R.id.editTextText6); t4=findViewById(R.id.editTextText7); t5=findViewById(R.id.editTextText8); t6=findViewById(R.id.editTextText9);

t1.setText("Name is: "+a1); t2.setText("Email is: "+a2); t3.setText("Collage Name is: "+a3); t4.setText("Roll No is: "+a4); t5.setText("Phone No is: "+a5); t6.setText("Address is: "+a6);

}

}

# output:



Conclusion:

# By this, Practical we can learn about various GUI components like fonts, colors and fields of many component.