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M.Sc. (I.C.T.) : 2nd Sem

**SUBJECT: Smart Device Computing using
Android (203)**

Sheet- 1

Ques. 1 Take a TextView with some default text and change text color with three different buttons Red, Green, and Blue respectively on button click event with linear layout.

Xml file

```
<?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:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/txtdefault"
        android:layout_width="match_parent"
        android:layout_height="250dp"
        android:text="Good Morning Everyone!! Click The Button
Please..."
        android:textSize="40sp" />

    <Button
```

```

        android:id="@+id/btnred"
        android:layout_width="match_parent"
        android:layout_height="150dp"
        android:background="@android:color/holo_red_light"
        android:text="Button"
        android:textColor="#212121"
        app:backgroundTint="@android:color/holo_red_light" />

<Button
    android:id="@+id/btngreen"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:background="@android:color/holo_green_light"
    android:text="Button"
    android:textColor="#0D47A1"
    app:backgroundTint="@android:color/holo_green_light" />

<Button
    android:id="@+id/btnblue"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:background="@android:color/holo_blue_bright"
    android:text="Button"
    android:textColor="#6D4C41"
    app:backgroundTint="@android:color/holo_blue_bright" />

```

```
</LinearLayout>
```

MainActivity

```

package com.example.colourfulbuttons;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.LinearLayout;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    Button btn1,btn2,btn3;
    TextView txt;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}

```

```

btn1=findViewById(R.id.btnred);
btn2=findViewById(R.id.btngreen);
btn3=findViewById(R.id.btnblue);
txt=findViewById(R.id.txtdefault);

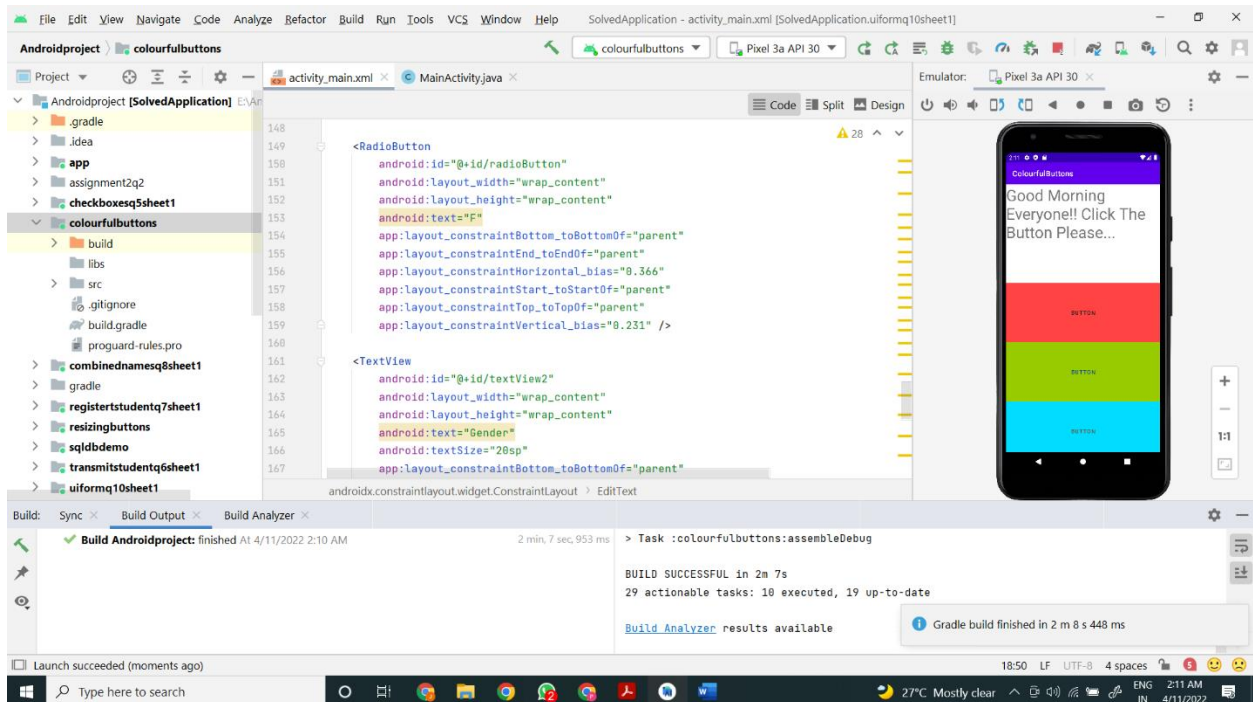
btn1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        txt.setTextColor(Color.RED);
    }
});

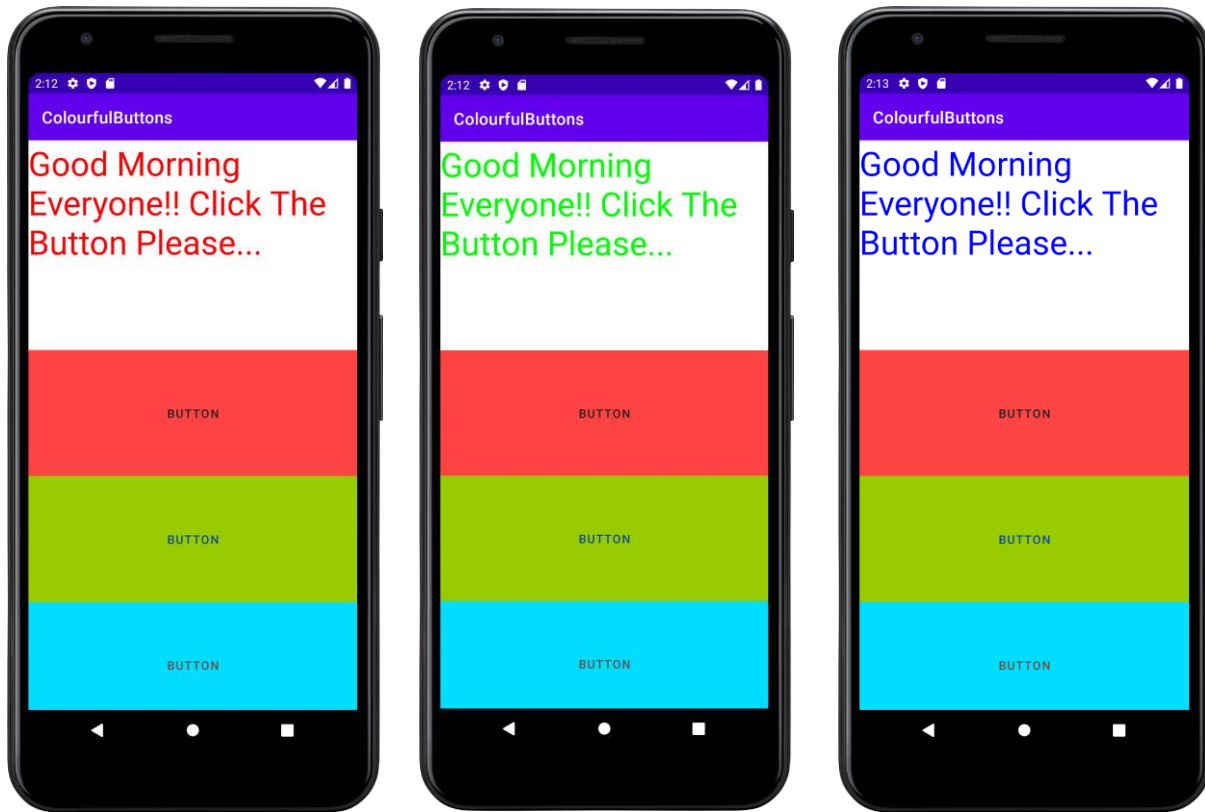
btn2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        txt.setTextColor(Color.GREEN);
    }
});

btn3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        txt.setTextColor(Color.BLUE);
    }
});
}

}

```





Ques. 2 Take a TextView with some default text and change text font size with three different buttons Small, Medium, and Large respectively on button click event with linear layout

Xml file

```
<?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:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
```

```

        android:id="@+id/txtdefault"
        android:layout_width="match_parent"
        android:layout_height="250dp"
        android:text="Good Morning Everyone!! Click The Button
Please..."
        android:textSize="40sp" />

<Button
    android:id="@+id/btnsmall"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:text="Get Small Size Text"
    android:textColor="#6D4C41"
    app:backgroundTint="@android:color/holo_blue_bright" />

<Button
    android:id="@+id/btnmedium"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:text="Get Medium Size Text"
    android:textColor="#6D4C41"
    app:backgroundTint="@android:color/holo_blue_bright" />

<Button
    android:id="@+id/btnlarge"
    android:layout_width="match_parent"
    android:layout_height="150dp"
    android:text="Get Large Size Text"
    android:textColor="#6D4C41"
    app:backgroundTint="@android:color/holo_blue_bright" />

</LinearLayout>

```

MainActivity.java

```

package com.example.resizingbuttons;
import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity {
    Button btn1,btn2,btn3;
    TextView txt;
    @Override

```

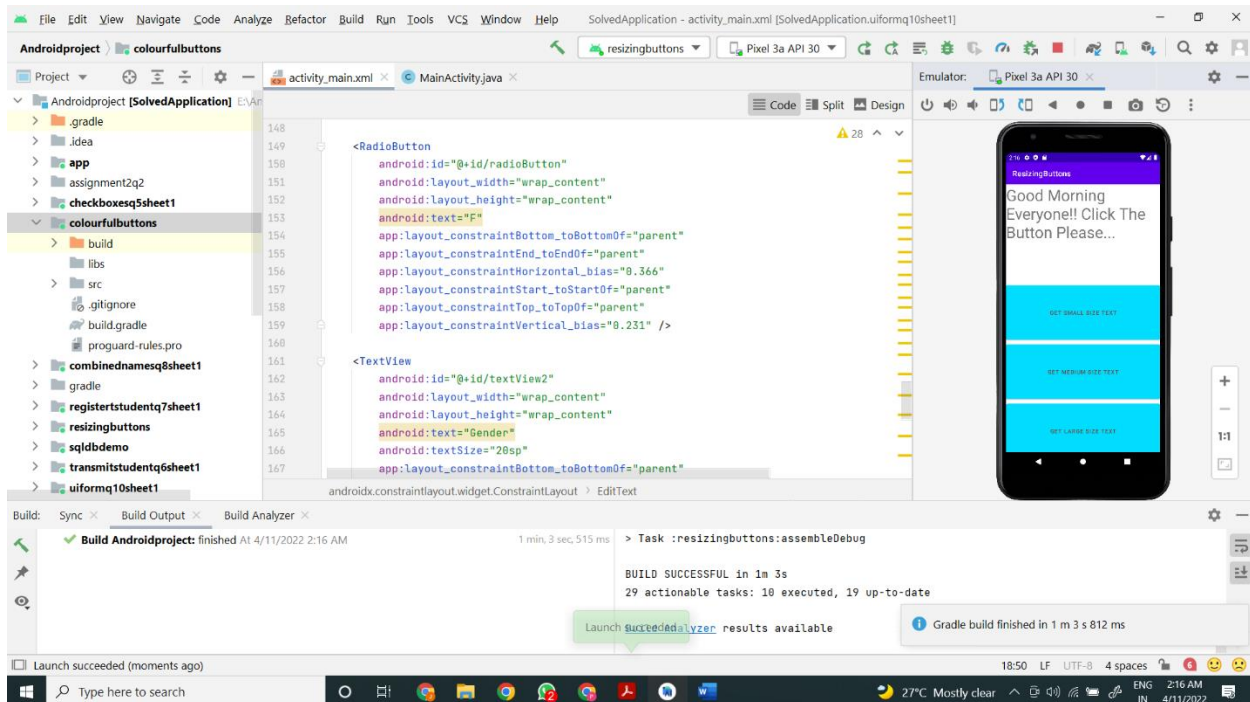
```

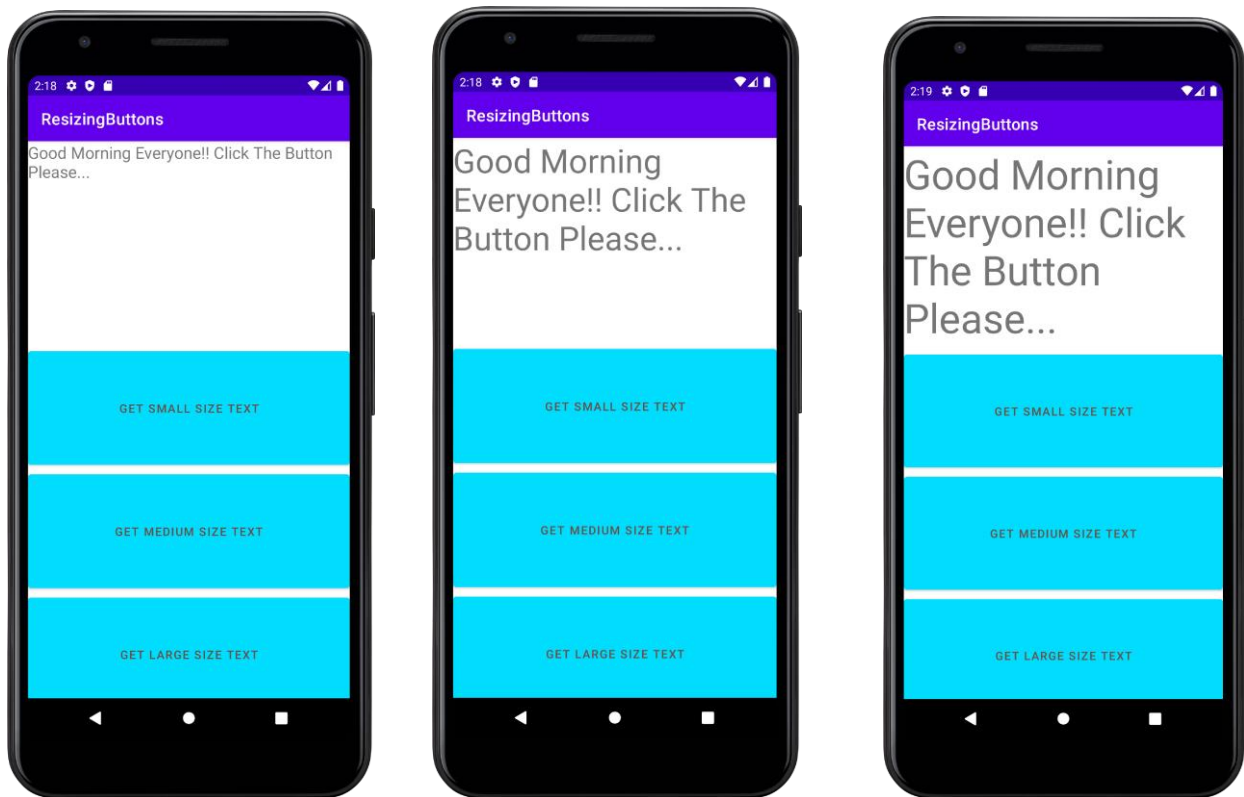
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    btn1=findViewById(R.id.btnsmall);
    btn2=findViewById(R.id.btnmedium);
    btn3=findViewById(R.id.btnlarge);
    txt=findViewById(R.id.txtdefault);
    btn1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            txt.setTextSize(20);
        }
    });

    btn2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            txt.setTextSize(40);
        }
    });
    btn3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            txt.setTextSize(50);
        }
    });
}
}

```





Ques. 3 Develop a simple calculator for addition, subtraction, multiplication, and division operations using a single textbox.

Xml file

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/e1"
```

```

    android:layout_width="132dp"
    android:layout_height="64dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Calculator"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.483"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.071" />

```

<EditText

```

    android:id="@+id/enum1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:text="Number1"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.22" />

```

<EditText

```

    android:id="@+id/enum2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:text="Number2"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.354" />

```

<TextView

```

    android:id="@+id/txtans"
    android:layout_width="176dp"
    android:layout_height="45dp"
    android:text="Result"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"

```



```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.473" />

<Button
    android:id="@+id/btnadd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="ADDITION"
    android:onClick="doSum"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.455"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.6" />

<Button
    android:id="@+id/btnsub"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SUBTRACTION"
    android:onClick="doSub"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.448"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.688" />

<Button
    android:id="@+id/btnmul"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="MULTIPLICATION"
    android:onClick="doMul"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.466"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.784" />

<Button
    android:id="@+id/btndiv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="DIVISION"
    android:onClick="doDiv"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.446"

```

```
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.875" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.accreteit.sheet1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    EditText e1, e2;
    TextView t1;
    int num1, num2;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    public boolean getNumbers() {
        e1 = (EditText) findViewById(R.id.enum1);
        e2 = (EditText) findViewById(R.id.enum2);
        t1 = (TextView) findViewById(R.id.txtans);
        String s1 = e1.getText().toString();

        String s2 = e2.getText().toString();

        if ((s1.equals(null) && s2.equals(null))
            || (s1.equals("") && s2.equals(""))) {

            String result = "Please enter a value";
            t1.setText(result);

            return false;
        } else {
            num1 = Integer.parseInt(s1);

            num2 = Integer.parseInt(s2);
        }

        return true;
    }

    public void doSum(View v) {
```

```

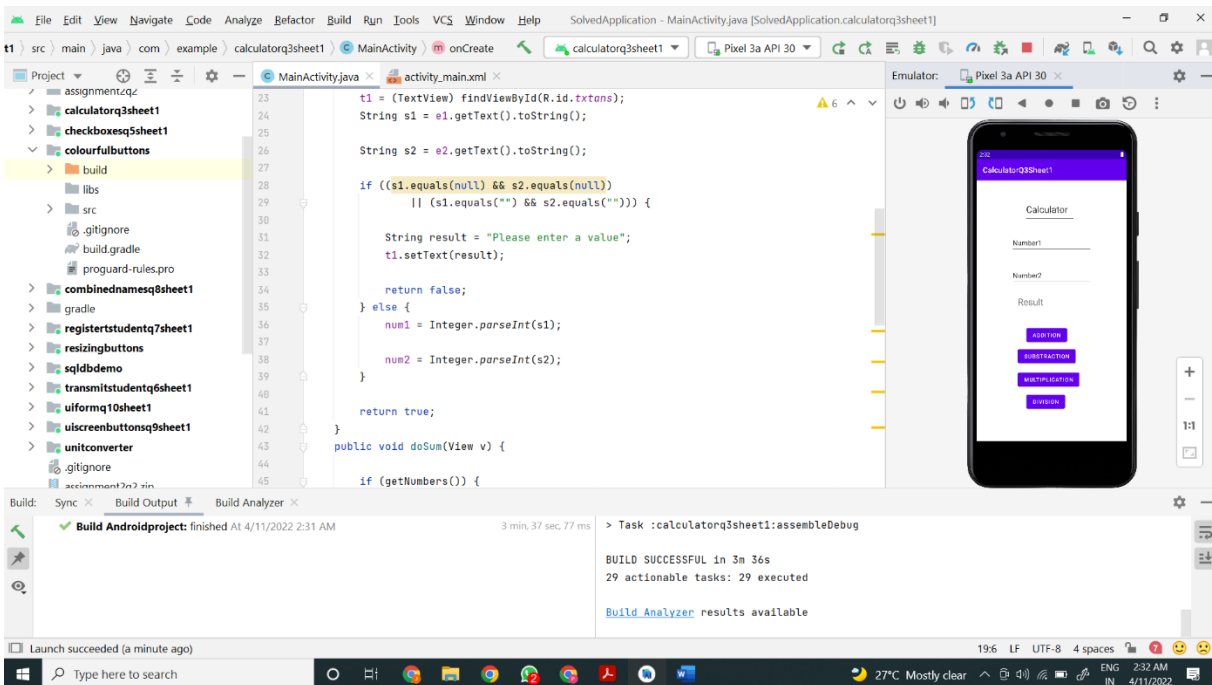
        if (getNumbers()) {
            int sum = num1 + num2;
            t1.setText(Integer.toString(sum));
        }
    }

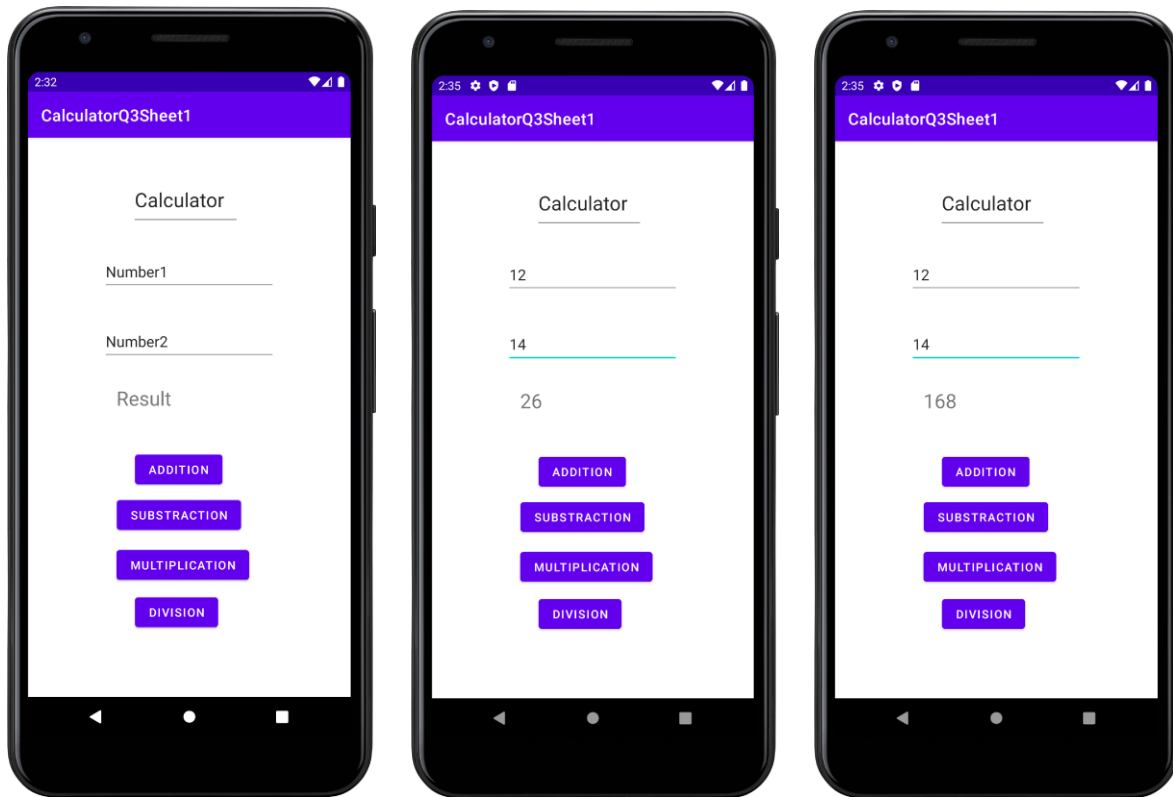
    public void doSub(View v) {
        if (getNumbers()) {
            int sum = num1 - num2;
            t1.setText(Integer.toString(sum));
        }
    }

    public void doMul(View v) {
        if (getNumbers()) {
            int sum = num1 * num2;
            t1.setText(Integer.toString(sum));
        }
    }

    public void doDiv(View v) {
        if (getNumbers()) {
            double sum = num1 / (num2 * 1.0);
            t1.setText(Double.toString(sum));
        }
    }
}

```





Ques 4. Develop a unit converter using radio button and Textview.

XML File

```
<?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">

    <EditText
        android:id="@+id/editTextUser"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="14dp"
        android:ems="10"
        android:hint="Enter Amount"
        android:inputType="numberDecimal"
        android:minHeight="48dp" />
```

```

<RadioGroup
    android:id="@+id/radioGroupCurrencies"
    android:layout_width="match_parent"
    android:layout_height="100sp"
    android:layout_below="@+id/editTextUser"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_marginTop="20dp">

    <RadioButton
        android:id="@+id/radioButtonCenti"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:checked="true"
        android:minHeight="50dp"
        android:onClick="onRadioButtonClicked"
        android:text="METER TO CENTIMETER" />

    <RadioButton
        android:id="@+id/radioButtonMeter"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:minHeight="48dp"
        android:onClick="onRadioButtonClicked"
        android:text="CENTIMETER TO METER" />
</RadioGroup>

<Button
    android:id="@+id/buttonConvert"
    android:layout_width="155dp"
    android:layout_height="69dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="131dp"
    android:layout_marginLeft="131dp"
    android:layout_marginTop="448dp"
    android:layout_marginEnd="125dp"
    android:layout_marginBottom="214dp"
    android:text="Convert" />

<TextView
    android:id="@+id/textViewOutput"
    android:layout_width="194dp"
    android:layout_height="53dp"
    android:layout_alignParentLeft="true"
    android:layout_alignParentTop="true"

```

```

        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginLeft="109dp"
        android:layout_marginTop="345dp"
        android:layout_marginEnd="108dp"
        android:layout_marginBottom="333dp"
        android:textAlignment="center"
        android:textSize="30sp" />

</RelativeLayout>

```

MainActivity.java

```

package com.example.unitconverter;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    RadioButton centi, meter;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void onRadioButtonClicked(final View view) {
        final boolean checked = ((RadioButton) view).isChecked();
        EditText editTextUser = findViewById(R.id.editTextUser);
        final TextView textViewOutput =
findViewById(R.id.textViewOutput);
        final double userInput =
Double.parseDouble(editTextUser.getText().toString());
        centi = findViewById(R.id.radioButtonCenti);
        meter = findViewById(R.id.radioButtonMeter);

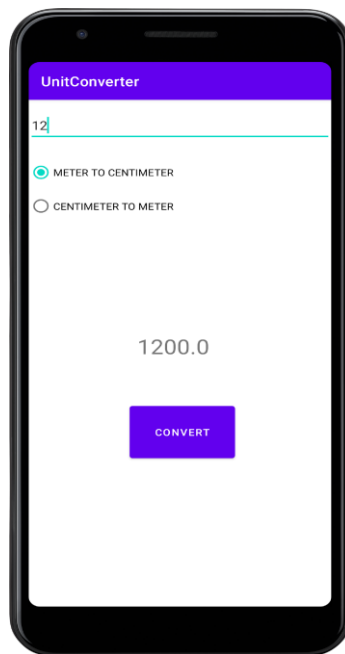
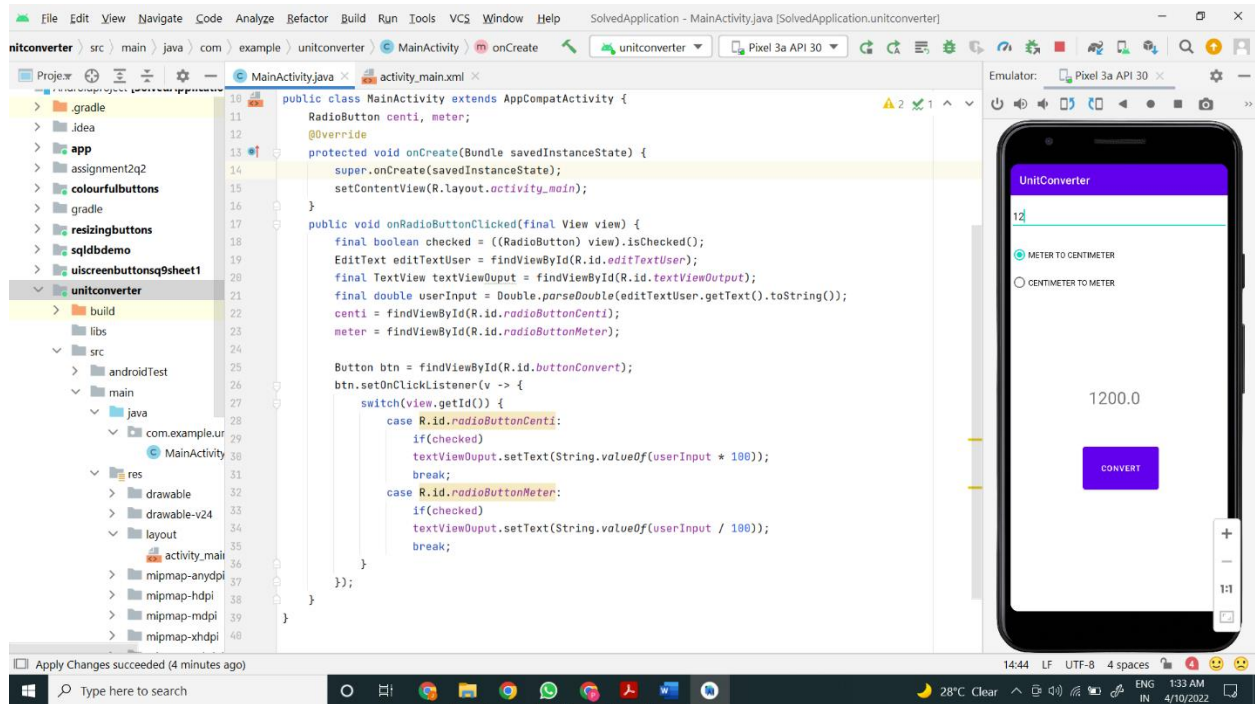
        Button btn = findViewById(R.id.buttonConvert);
        btn.setOnClickListener(v -> {
            switch(view.getId()) {
                case R.id.radioButtonCenti:
                    if(checked)
                        textViewOutput.setText(String.valueOf(userInput *
100));
                    break;
                case R.id.radioButtonMeter:

```

```

        if (checked)
            textViewOutput.setText(String.valueOf(userInput /
100));
        break;
    }
    });
}
}

```



Ques 5. Develop an application with checkboxes which display selected items into textView and total amount in another textview.

XML File

```
<?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">

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="137dp"
        android:layout_height="58dp"
        android:text="Pasta"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.221" />

    <CheckBox
        android:id="@+id/checkBox2"
        android:layout_width="138dp"
        android:layout_height="49dp"
        android:text="Sizzler"
        android:textSize="16sp"
        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="0.315" />

    <CheckBox
        android:id="@+id/checkBox3"
        android:layout_width="140dp"
        android:layout_height="49dp"
        android:text="Momos"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.501"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```



```

        app:layout_constraintVertical_bias="0.398" />

<Button
    android:id="@+id/button"
    android:layout_width="205dp"
    android:layout_height="67dp"
    android:text="ORDER PLEASE"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.531" />

<TextView
    android:id="@+id/ed1"
    android:layout_width="158dp"
    android:layout_height="140dp"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.537"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.742" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Welcome To Cafe"
    android:textSize="24sp"
    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="0.046" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Get Your Orders Here"
    android:textSize="16sp"
    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="0.125" />

```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.checkboxesq5sheet1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle; import android.view.View; import
android.widget.Button; import android.widget.CheckBox; import
android.widget.TextView; import android.widget.Toast; public class
MainActivity extends AppCompatActivity
{
    CheckBox pasta,sizzler,momos;
    Button buttonOrder; TextView ed1;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        addListenerOnButtonClick();
    }
    public void addListenerOnButtonClick() {
        pasta = (CheckBox) findViewById(R.id.checkBox);
        sizzler = (CheckBox) findViewById(R.id.checkBox2);
        momos = (CheckBox) findViewById(R.id.checkBox3);
        buttonOrder = (Button) findViewById(R.id.button);
        ed1=findViewById(R.id.ed1);
        buttonOrder.setOnClickListener(new View.OnClickListener()

        {
            @Override
            public void onClick(View view) { int totalamount = 0;
                StringBuilder result = new StringBuilder();
                result.append("Selected Items:");
                if (pasta.isChecked())
                {
                    result.append("\nPasta 200Rs");
                    totalamount += 200;
                }
                if (sizzler.isChecked())
                {
                    result.append("\nSizzler 350Rs");
                    totalamount += 350;
                }
                if (momos.isChecked())
                {
                    result.append("\nMomos 120Rs");
                    totalamount += 120;
                }
                result.append("\nTotal Amount: " + totalamount + "Rs");
                ed1.setText(result.toString());
            }
        }
    }
}
```


Ques 6. Develop an application to transmit student information from one activity to other activity.

MainActivity.java

```
package com.example.transmitstudentq6sheet1;

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 {

    Button b1;
    EditText ed1,ed2,ed3;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    { super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.b1);
        ed1=findViewById(R.id.ed1);
        ed2=findViewById(R.id.ed2);
        ed3=findViewById(R.id.ed3);
        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override public void onClick(View view)
            { String str=ed1.getText().toString()+"
"+ed2.getText().toString()+" "+ed3.getText().toString();
                Intent it=new
Intent(getApplicationContext(),Activity2.class);
                it.putExtra("message_key",str);
                startActivity(it);
            }
        });
    }
}
```

XML File-1

```
<?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/ed1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.19" />

    <EditText
        android:id="@+id/ed2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Roll No."
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.276" />

    <EditText
        android:id="@+id/ed3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Course Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

        app:layout_constraintVertical_bias="0.367" />

<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SUBMIT"
    android:textSize="24sp"
    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="0.536" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Student Information"
    android:textSize="34sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.464"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.082" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity2.java

```

package com.example.transmitstudentq6sheet1;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class Activity2 extends AppCompatActivity {

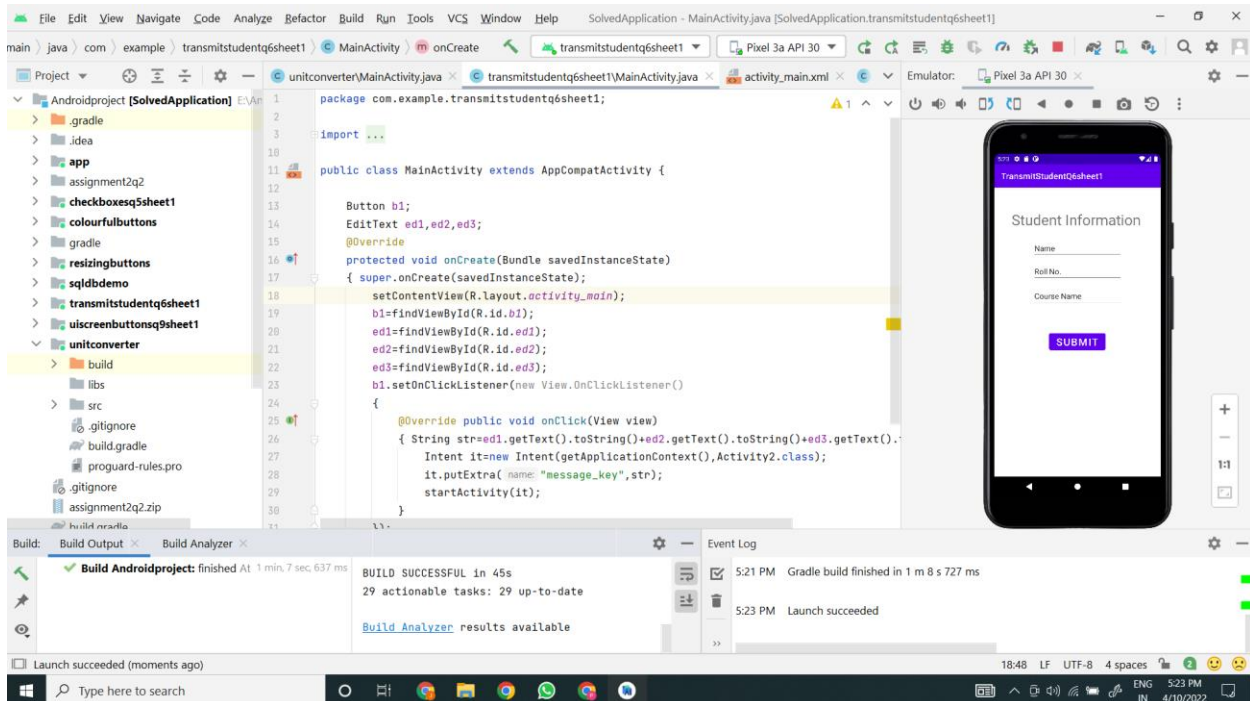
    TextView receive_value;
    @Override protected void onCreate(Bundle savedInstanceState)
    { super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_2);
        receive_value = (TextView)findViewById(R.id.receive_value);
        Intent it=getIntent();
        String str=it.getStringExtra("message_key");
        receive_value.setText(str);
    }
}

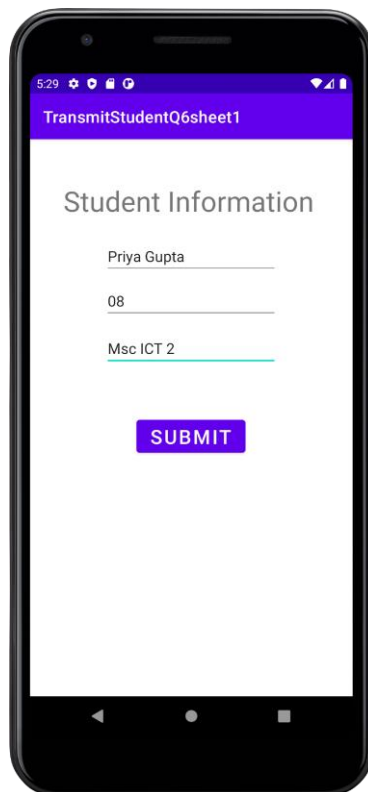
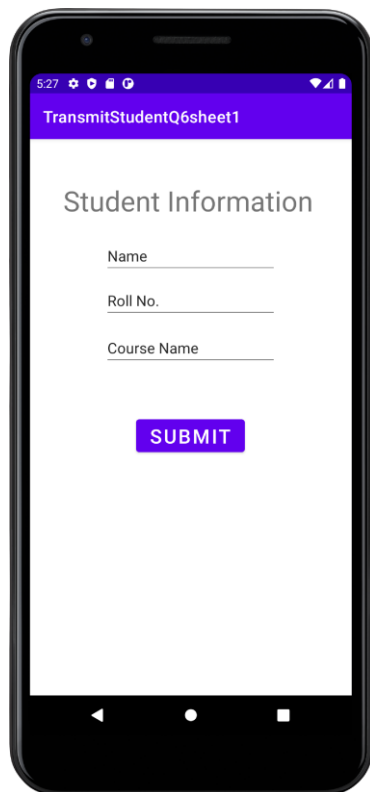
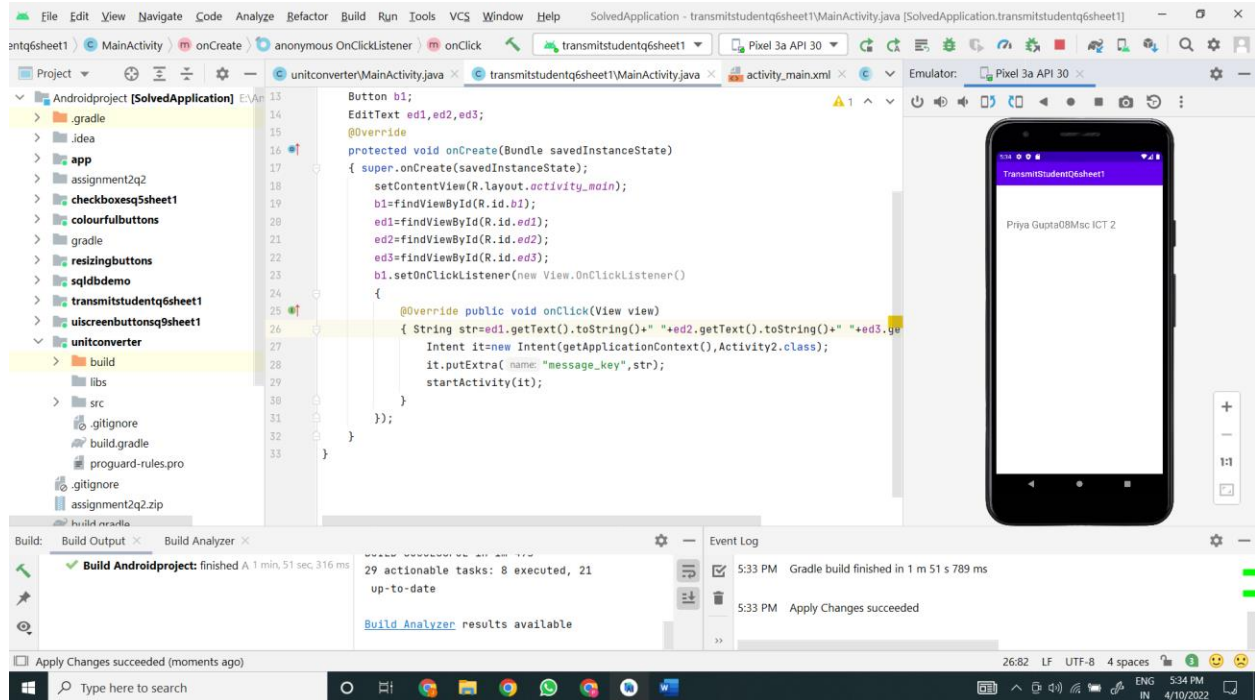
```

XML FILE2

```
<?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=".Activity2">

    <TextView
        android:id="@+id/receive_value"
        android:layout_width="346dp"
        android:layout_height="157dp"
        android:text="TextView"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.524"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.144" />
</androidx.constraintlayout.widget.ConstraintLayout>
```





Ques 7. Develop an application for registration of student with five fields Name, Age, Address, City, and Phone using edit text. On submit button transfer these information and display on another activity.

MainActivity.java

```
package com.example.registertstudentq7sheet1;

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 {
    EditText ed1,ed2,ed3,ed4,ed5;
    Button b1;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.b1);
        ed1=findViewById(R.id.ed1);
        ed2=findViewById(R.id.ed2);
        ed3=findViewById(R.id.ed3);
        ed4=findViewById(R.id.ed4);
        ed5=findViewById(R.id.ed5);

        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view)
            {
                String str=ed1.getText().toString()+"
"+ed2.getText().toString()+" "+ed3.getText().toString()+"
"+ed4.getText().toString()+" "+ed5.getText().toString();
                Intent it=new
Intent(getApplicationContext(),Activity2.class);
                it.putExtra("message_key",str);
                startActivity(it);
            }
        });
    }
}
```

XML File

```
<?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/ed2"
        android:layout_width="340dp"
        android:layout_height="51dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Age"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.225"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.325" />

    <EditText
        android:id="@+id/ed4"
        android:layout_width="340dp"
        android:layout_height="51dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="City"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.225"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.614" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="38dp"
        android:layout_height="17dp"
        android:text="City:"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.042"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.561" />
```

```
<EditText
    android:id="@+id/ed3"
    android:layout_width="340dp"
    android:layout_height="51dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Address"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.239"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.47" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Address:"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.047"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.421" />
```

```
<EditText
    android:id="@+id/ed5"
    android:layout_width="340dp"
    android:layout_height="51dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Phone"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.239"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.764" />
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Phone:"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.046"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.703" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Age:"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.041"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.285" />
```

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name:"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.045"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.169" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="286dp"
    android:layout_height="63dp"
    android:text="Student Registration Form"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.512"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.052" />
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SUBMIT"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.45"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.882" />
```

```
<EditText
```

```

        android:id="@+id/ed1"
        android:layout_width="340dp"
        android:layout_height="51dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.239"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.204" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity2.java

```

package com.example.registertstudentq7sheet1;

import androidx.appcompat.app.AppCompatActivity;

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

public class Activity2 extends AppCompatActivity {

    TextView receive_value;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_2);
        receive_value = (TextView) findViewById(R.id.receive_value);
        Intent it=getIntent();
        String str=it.getStringExtra("message_key");
        receive_value.setText(str);
    }
}

```

XML File2

```

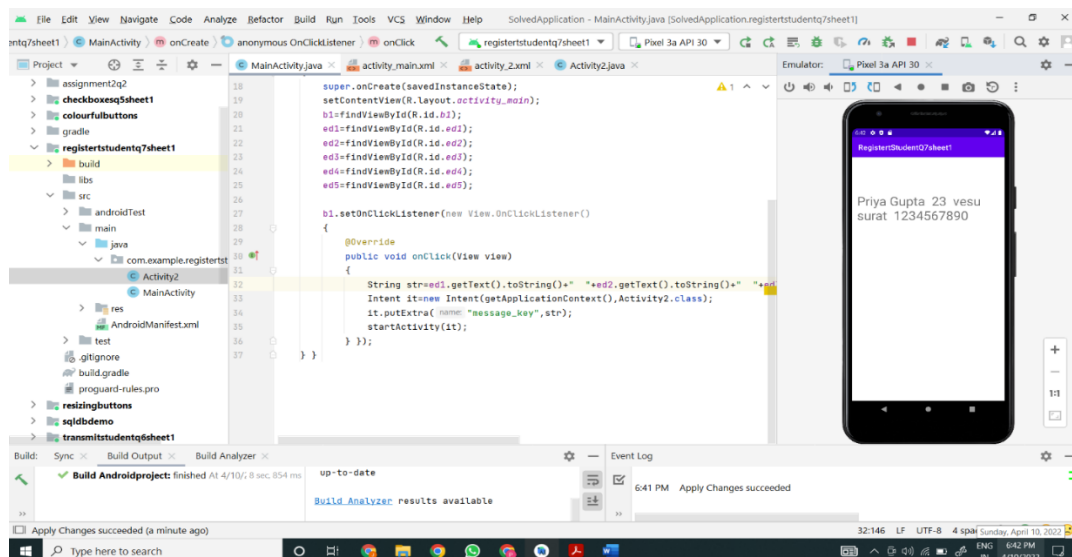
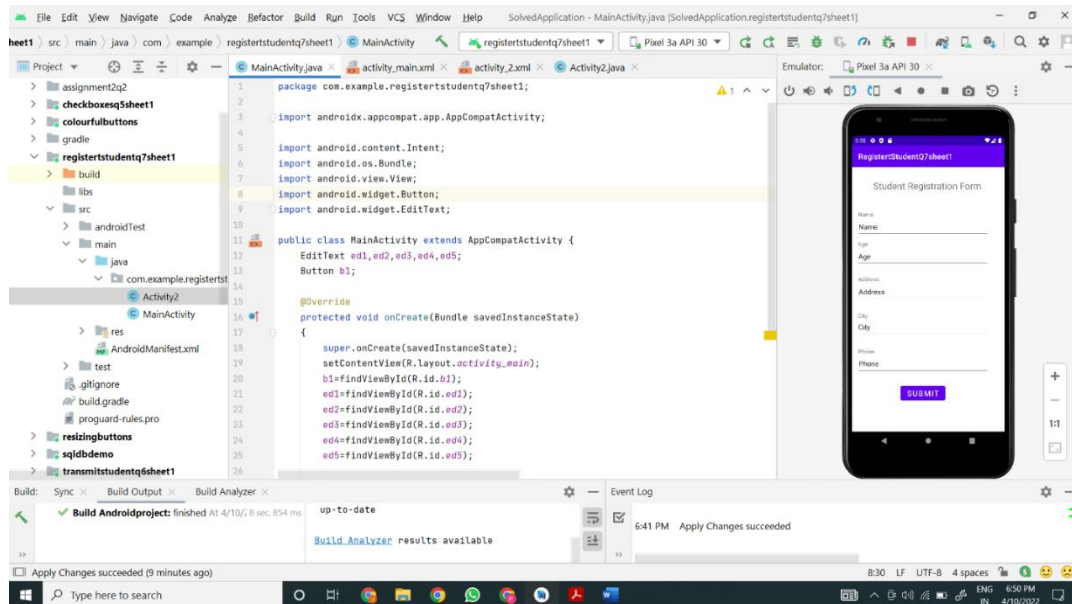
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Activity2">

```

```

<TextView
    android:id="@+id/receive_value"
    android:layout_width="367dp"
    android:layout_height="163dp"
    android:text="TextView"
    android:textSize="34sp"
    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="0.192" />
</androidx.constraintlayout.widget.ConstraintLayout>

```



6:43

RegistertStudentQ7sheet1

Student Registration Form

Name:
Name

Age:
Age

Address:
Address

City:
City

Phone:
Phone

SUBMIT

6:33

RegistertStudentQ7sheet1

Student Registration Form

Name:
Priya Gupta

Age:
23

Address:
vesu

City:
surat

Phone:
1234567890

SUBMIT

6:42

RegistertStudentQ7sheet1

Priya Gupta 23 vesu
surat 1234567890

Ques 8. Develop an application which accepts first name and last name with different text box and on button click combine first name and last name and display it into label second screen.

MainActivity.java

```
package com.example.combinednamesq8sheet1;

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 {

    EditText ed1,ed2;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        b1=findViewById(R.id.b1);
        ed1=findViewById(R.id.ed1);
        ed2=findViewById(R.id.ed2);
        b1.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View view)
            { String
str=ed1.getText().toString()+ed2.getText().toString();
            Intent it=new
Intent(getApplicationContext(),Activity2.class);
            it.putExtra("message_key",str);
            startActivity(it);
            }
        });
    }
}
```


XML File-1

```
<?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/ed2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Enter Last Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.079"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.275" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Last Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.045"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.216" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="First Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.045"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.07" />

    <EditText
        android:id="@+id/ed1"
```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Enter First Name"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.079"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.118" />

<Button
    android:id="@+id/b1"
    android:layout_width="152dp"
    android:layout_height="81dp"
    android:text="Submit"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.415" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity2.java

```

package com.example.combinednamesq8sheet1;

import androidx.appcompat.app.AppCompatActivity;

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

public class Activity2 extends AppCompatActivity {

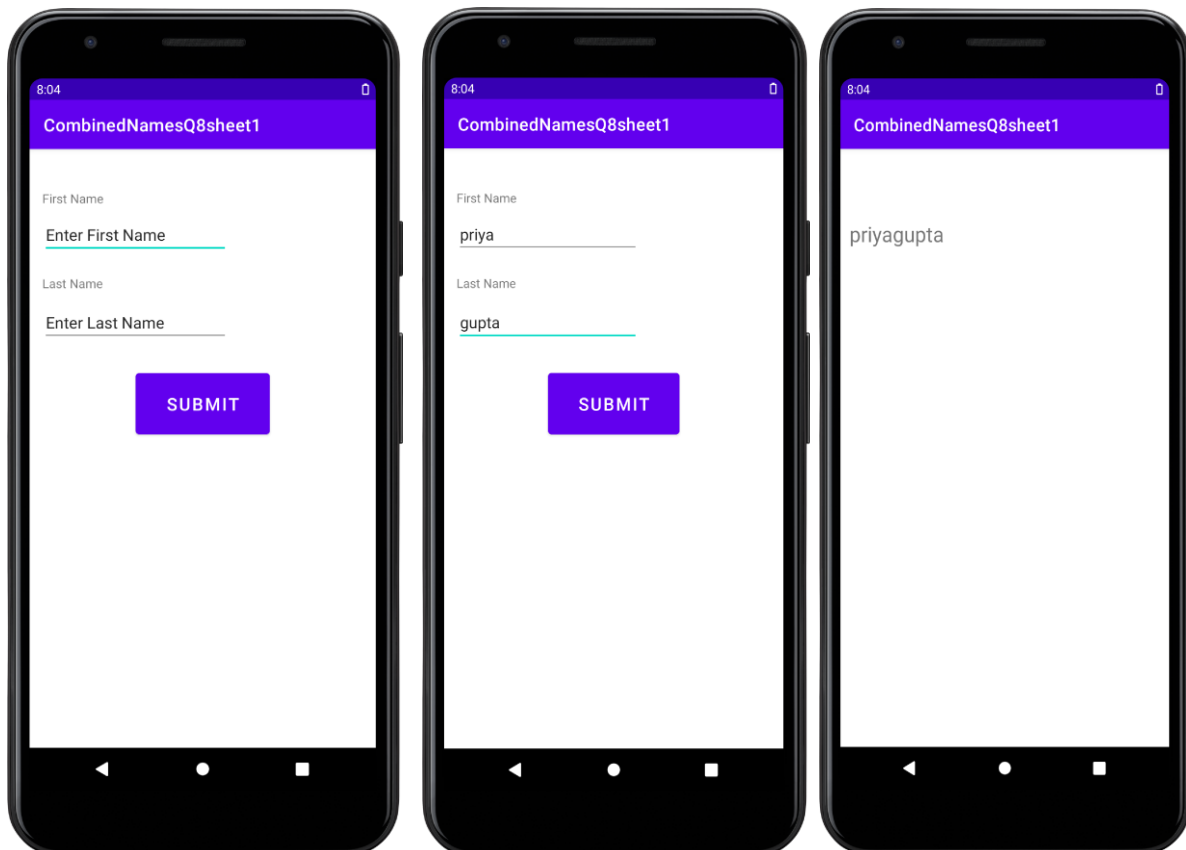
    TextView receive_value;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_2);
        receive_value = (TextView)findViewById(R.id.receive_value);
        Intent it=getIntent();
        String str=it.getStringExtra("message_key");
        receive_value.setText(str);
    }
}

```

XML File-2

```
<?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=".Activity2">

    <TextView
        android:id="@+id/receive_value"
        android:layout_width="371dp"
        android:layout_height="227dp"
        android:text="TextView"
        android:textSize="24sp"
        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="0.178" />
</androidx.constraintlayout.widget.ConstraintLayout>
```



Ques 9. Create a userinterface screen with buttons as shown below figure:

MainActivity.java

```
package com.example.uiscreenbuttonsq9sheet1;

import androidx.appcompat.app.AppCompatActivity;

import android.graphics.Color;
import android.os.Bundle;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button btn,btn2,btn3,btn4,btn5,btn6,btn7;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn = findViewById(R.id.b1);
        btn2 = findViewById(R.id.b2);
        btn3 = findViewById(R.id.b3);
        btn4 = findViewById(R.id.b4);
        btn5 = findViewById(R.id.b5);
        btn6 = findViewById(R.id.b6);
        btn6 = findViewById(R.id.b7);

        btn.setBackgroundColor(Color.RED);
        btn2.setBackgroundColor(Color.rgb(255, 165, 0));
        btn3.setBackgroundColor(Color.YELLOW);
        btn4.setBackgroundColor(Color.GREEN);
        btn5.setBackgroundColor(Color.BLUE);
        btn6.setBackgroundColor(Color.rgb(74,0,132));
        btn6.setBackgroundColor(Color.rgb(239,130,239));
    }
}
```

XML File

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
```

```
android:orientation="vertical"
tools:context=".MainActivity">
```

```
<Button
    android:id="@+id/b1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Red"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<Button
    android:id="@+id/b2"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Orange"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<Button
    android:id="@+id/b3"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Yellow"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<Button
    android:id="@+id/b4"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Green"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<Button
    android:id="@+id/b5"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Blue"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```

<Button
    android:id="@+id/b6"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Indigo"
    android:textColor="@color/black"
    android:textSize="20sp" />

```

```

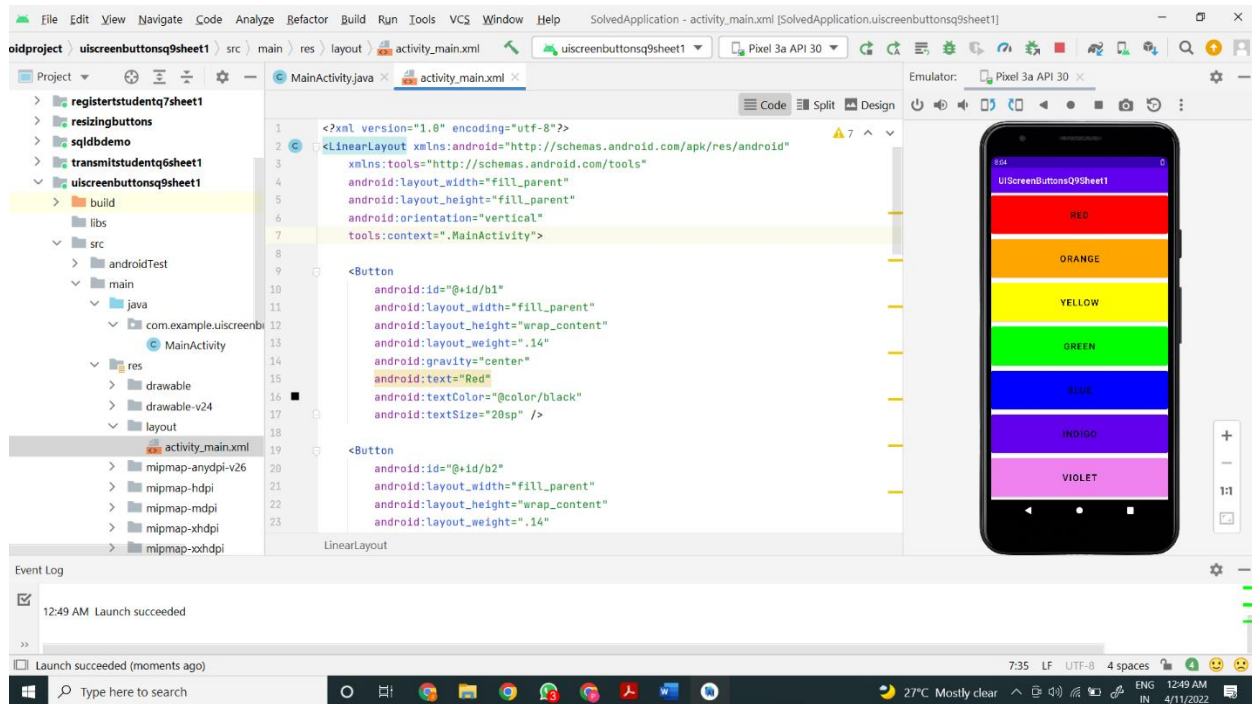
<Button
    android:id="@+id/b7"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_weight=".14"
    android:gravity="center"
    android:text="Violet"
    android:textColor="@color/black"
    android:textSize="20sp" />

```

```

</LinearLayout>

```





Ques 10. Create a userinterface screen with buttons as shown below figure:

MainActivity.java

```
package com.example.uiformq10sheet1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

XML File

```
<?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/ed7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:inputType="textPersonName"
        android:minHeight="48dp"
        android:text="Address"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.184"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.686" />

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:shadowColor="#E695E2"
        android:text="I have read, understood and accepted membership
rules."
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.824" />

    <Button
        android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
        android:textSize="16sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```



```

        app:layout_constraintVertical_bias="0.941" />

<EditText
    android:id="@+id/ed6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:text="Phone"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.184"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.575" />

<EditText
    android:id="@+id/ed5"
    android:layout_width="182dp"
    android:layout_height="48dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Age"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.855"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.459" />

<EditText
    android:id="@+id/ed4"
    android:layout_width="144dp"
    android:layout_height="48dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Goal Weight"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.138"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.459" />

<EditText
    android:id="@+id/ed2"
    android:layout_width="146dp"
    android:layout_height="54dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Current Weight"

```

```

        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.132"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.341" />

<EditText
    android:id="@+id/ed3"
    android:layout_width="190dp"
    android:layout_height="50dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Height"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.886"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.342" />

<EditText
    android:id="@+id/ed1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    android:text="Full Name"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.179"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.126" />

<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Membership Form"
    android:textColor="#975698"
    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="0.038" />

<RadioButton
    android:id="@+id/radioButton"
    android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:text="F"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.366"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.231" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Gender"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.115"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.24" />

<RadioButton
    android:id="@+id/radioButton2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="M"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.567"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.231" />

<RadioButton
    android:id="@+id/radioButton3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="other"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.809"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.231" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

