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ROLL NO: 08

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);
              });
       }
       }
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  > 📭 app
                                      android:id="@+id/radioButton"
  > assignment2q2
  > lig checkboxesq5sheet1
                                       android:layout_height="wrap_content"
                                                                                                          veryonell Click The
                                       android:text="F"
∨ 🔤 colourfulbuttons
                                                                                                          Button Please...
                                       ann:layout constraintBottom toBottomOf="narent"
    > build
                                      app:layout_constraintEnd_toEndOf="parent
     libs
                                      app:layout_constraintHorizontal_bias="0.366"
    > src
                                      app:layout_constraintStart_toStartOf="parent"
      agitignore.
                                       app:layout_constraintTop_toTopOf="parent
                                      app:layout_constraintVertical_bias="0.231" />
      m build.gradle
      proguard-rules.pro
                                   <TextView
  > mcombinednamesq8sheet1
                                      android:id="@+id/textView2"
                                      android:layout width="wrap content"
  > iii registertstudentq7sheet1
                                       android:layout_height="wrap_content"
  > lig resizing buttons
                                       android:text="Gender"
                                                                                                                               1:1
  > lis sqldbdemo
                                       android:textSize="20sp"
  > transmitstudentq6sheet1
                                       app:layout_constraintBottom_toBottomOf="parent"
  uiformq10sheet1
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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">
```

```
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>
```

```
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);
              });
       }
}
👅 File Edit View Navigate Code Analyze Befactor Build Run Iools VCS Window Help SolvedApplication - activity_main.xml [SolvedApplication.uiformq10sheet1]
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Emulator: Pixel 3a API 30 ×
✓ Mandroidproject [SolvedApplication] E:\Ai
                                                                             ■ Code ■ Split ■ Design U • • □ 10 10 4 • ■ 60 50
> III .gradle
  > 🗎 .idea
                                   <RadioButton
  > 📭 app
                                      android:id="@+id/radioButton"
  > assignment2q2
                                       android:layout_width="wrap_content
                                                                                                          ood Morning
  > lig checkboxesq5sheet1
                                      android:layout_height="wrap_content"
                                                                                                         veryonell Click The
                                      android:text="F"
∨ 🐚 colourfulbuttons
                                                                                                         Button Please...
                                      app:layout_constraintBottom_toBottomOf="parent"
    > build
                                      app:layout_constraintEnd_toEndOf="parent
     libs
                                      app:layout_constraintHorizontal_bias="0.366"
    > src
                                      app:layout_constraintStart_toStartOf="parent"
      agitignore.
                                      app:layout_constraintTop_toTopOf="parent
                                      app:layout_constraintVertical_bias="0.231" />
      m build.gradle
      proguard-rules.pro
                                   <TextView
  > mcombinednamesq8sheet1
                                      android:id="@+id/textView2"
  > gradle
                                      android:layout width="wrap content"
  > iii registertstudentq7sheet1
                                       android:layout_height="wrap_content"
  > lig resizing buttons
                                      android:text="Gender"
                                                                                                                              1:1
  > sqldbdemo
                                      android:textSize="20sp"
  > transmitstudentq6sheet1
                                      app:layout_constraintBottom_toBottomOf="parent"
> lig uiformq10sheet1
                                 androidx.constraintlayout.widget.ConstraintLayout > EditText
Build: Sync × Build Output ×
                     Build Analyzer

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                                                                BUILD SUCCESSEUL in 1m 3s
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```







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"</pre>
```

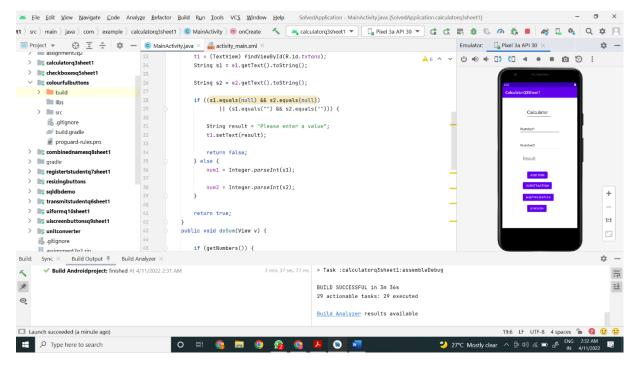
```
android:layout width="132dp"
    android:layout height="64dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Calculator"
    android:textSize="24sp"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal 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"
```

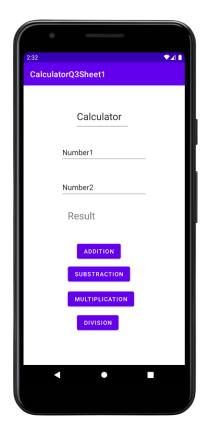
```
app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.473" />
<Button
    android:id="@+id/btnadd"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="ADDITION"
    android:onClick="doSum"
    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="SUBSTRACTION"
    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"
```

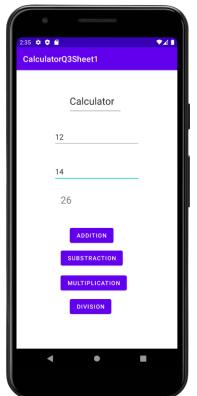
```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.875" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

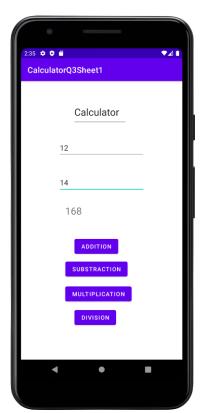
```
package com.accreteit.sheet1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    EditText e1, e2;
    TextView t1;
    int num1, 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 version="1.0" encoding="utf-8"?>
<RelativeLavout
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" />
```

```
< Radio Group
    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">
    < Radio Button
        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>
```

```
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 textViewOuput =
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)
                    textViewOuput.setText(String.valueOf(userInput *
100));
                    break;
                case R.id.radioButtonMeter:
```

```
if(checked)
                                           textViewOuput.setText(String.valueOf(userInput /
100));
                                           break;
                 });
        }
}
👅 File Edit View Navigate Code Analyze Refactor Build Run Iools VCS Window Help SolvedApplication - MainActivity.java [SolvedApplication.unitconverter]
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                                                                                                            A2 2 1 ^ ∨ U → → □5 (□ ◀ ● ■ ⑤
                                    RadioButton centi, meter;
  > 🗎 .idea
                                    @Override
  > 📭 app
                          13
                                    protected void onCreate(Bundle savedInstanceState) {
  > assignment2q2
                                    super.onCreate(savedInstanceState);
  > ling colourfulbuttons
                                        setContentView(R.layout.activity_main);
  > mgradle
                                    public void onRadioButtonClicked(final View view) {
  > 📭 resizing buttons
                                       final boolean checked = ((RadioButton) view).isChecked();
EditText editTextUser = findViewById(R.id.editTextUser);
  > sqldbdemo
                                                                                                                             METER TO CENTIMETER
  > is uiscreenbuttonsq9sheet1
                                        final TextView textViewOuput = findViewById(R.id.textViewOutput);
final double userInput = Double.parseDouble(editTextUser.getText().toString());
                                                                                                                             O CENTIMETER TO METER
∨ 📭 unitconverter
    > build
                                       centi = findViewById(R.id.radioButtonCenti);
       libs
                                       meter = findViewById(R.id.radioButtonMeter);

✓ Image: src

                                       Button btn = findViewById(R.id.buttonConvert);
      > androidTest
                                        btn.setOnClickListener(v -> {
       ∨ 🗎 main
                                                                                                                                      1200.0
                                           switch(view.getId()) {
         ∨ iava
                                              case R.id.radioButtonCenti:
           ∨ com.example.ur 29
                                                 if(checked)
                MainActivity 38
                                                  textViewOuput.setText(String.valueOf(userInput * 100));
         ∨ Ires
           > m drawable
                                              case R.id.radioButtonMeter:
            > drawable-v24 33
                                                 if(checked)
textViewOuput.setText(String.valueOf(userInput / 100));

✓ Iayout

                activity_mair 35
            > mipmap-anydpi 37
           > mipmap-hdpi 38
           > mipmap-mdpi 39
            > mipmap-xhdpi 48
Apply Changes succeeded (4 minutes ago)
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                                                                                                               🌙 28°C Clear 🛆 ট্রিবা) 🦟 🖭 🔗 ENG 1:33 AM
UnitConverter
                                                           METER TO CENTIMETER
                                                           CENTIMETER TO METER
                                                                       1200.0
```

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

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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" />
```

```
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());
```

```
});
              }
}
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                                                                      public void onClick(View view) { int totalamount = 0;
     > 📭 app
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result.append("Selected Items:");
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     > 📑 checkboxesq5sheet1
                                                                           if (pasta.isChecked())
     > 📭 colourfulbuttons
                                                                                 result.append("\nPasta 200Rs");
                                                                                                                                                                                                                        Welcome To Cafe
     > mgradle
                                                                                 totalamount += 200;
     > lig resizing buttons
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     > sqldbdemo
                                                                            if (sizzler.isChecked())
     > iii uiscreenbuttonsq9sheet1 33
                                                                                 result.append("\nSizzler 350Rs");
     > I unitconverter
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                                                                                 totalamount += 350;
         gitignore.
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         assignment2q2.zip
                                                                            if (momos.isChecked())
         w build.gradle
         gradle.properties
                                                                                                                                                                                                                          ORDER PLEASE
                                                                                 result.append("\nMomos 120Rs");
         a gradlew
                                                                                 totalamount += 120;
         gradlew.bat
                                                                            result.append("\nTotal Amount: " + totalamount + "Rs");
         a local.properties
                                                                            edl.setText(result.toString());
         settings.gradle
         uiscreenbuttonsq9sheet1.zip 44
                                                                });
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     Scratches and Consoles
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                                                                                                                                                            Total Amount:
                                                                                                                                                           550Rs
```

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

```
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 version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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"
```

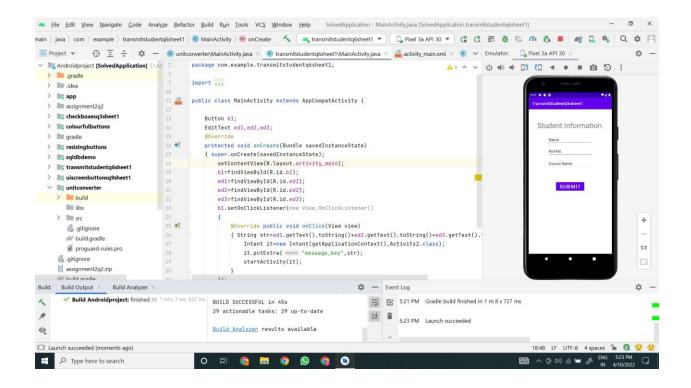
```
app:layout constraintVertical bias="0.367" />
    <Button
        android:id="@+id/b1"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="SUBMIT"
        android:textSize="24sp"
        app:layout constraintBottom toBottomOf="parent"
        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);
```

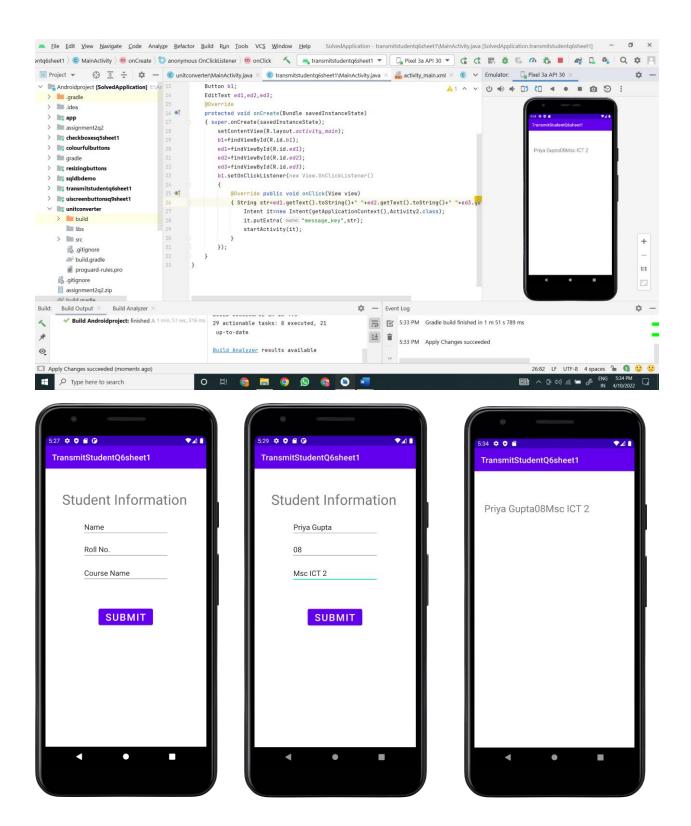
}

}

XML FILE2

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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.

```
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 version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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" />
```

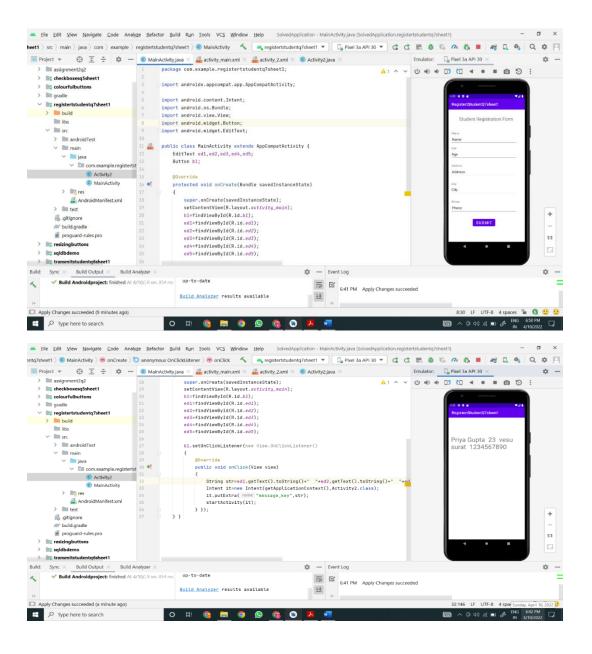
```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap content"
    android:layout height="wrap content"
    android:text="Age:"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.041"
    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" />
```

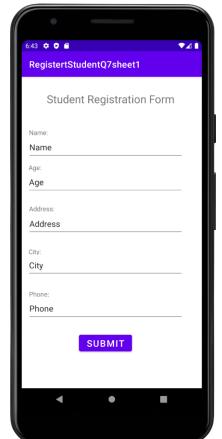
```
android:id="@+id/ed1"
android:layout_width="340dp"
android:layout_height="51dp"
android:ems="10"
android:inputType="textPersonName"
android:text="Name"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.239"
app:layout_constraintStart_toStartOf="parent"
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 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">
```









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.

```
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);
        });
   }
```

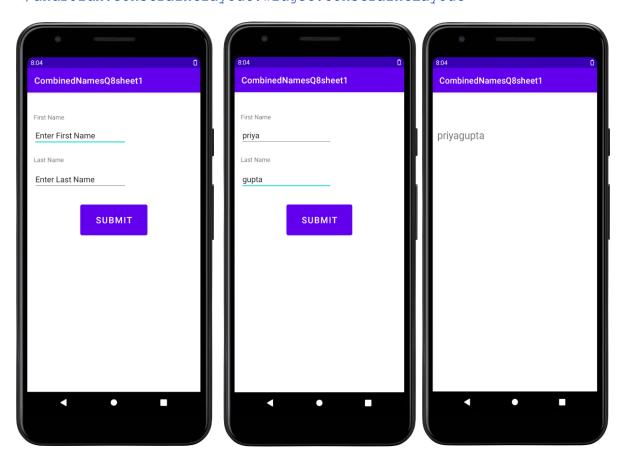
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    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 version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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:

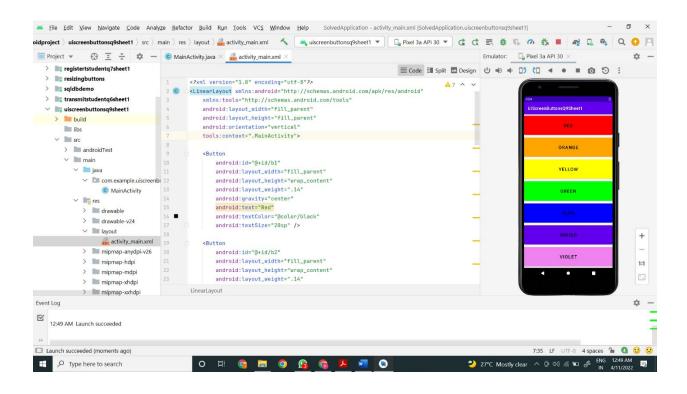
MainActivity.java

```
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 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"</pre>
```

```
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" />
```

```
<But.ton
        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:

```
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 version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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" />
< Radio Button
    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" />
< Radio Button
    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>

