Q-1

```
<?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"
 tools:context=".pr1_textview"
 android:orientation="vertical"
  <TextView
    android:id="@+id/textView
    1"
    android:layout_width="match_paren
    t"
    android:layout_height="wrap_conte
    nt" android:text="UKA Tarsadia
    University" android:textSize="20dp"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:textColor="@color/black"/>
  <TextView
    android:id="@+id/textViewI1"
    android:layout_width="match_paren
    t" android:layout_height="1dp"
    android:text="TextView"
    android:background="@color/black"
    />
```

```
android:id="@+id/textView
    android:layout_width="match_paren
    android:layout_height="wrap_conte
    nt"
    android:text="Maliba Campus, \nGopal Vidyanagar, \nBardoli-Mahuva Road, \nTarsadia -
    394 350.
\nDist:Surat \nGujarat, INDIA."
    android:textSize="20dp"
    android:layout_marginLeft="20dp
    android:layout_marginRight="20d
    p"
    android:textColor="@color/black"
    />
  <TextView
    android:id="@+id/textViewI2"
    android:layout_width="match_paren
    t" android:layout_height="1dp"
    android:text="TextView"
    android:background="@color/black"
   />
  <TextView
    android:id="@+id/textView
    3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="+91 2625 290020 \n +91 2625
    290074" android:textSize="20dp"
    android:layout_marginLeft="20dp"
```

<TextView

android:layout_marginRight="20dp" android:textColor="@color/black"/>

<TextView

```
android:id="@+id/textViewl3"
    android:layout_width="match_paren
    t" android:layout_height="1dp"
    android:text="TextView"
    android:background="@color/black"
   />
</LinearLayout>
Practical list 2
<?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"
tools:context=".pr2_layout2"
android:orientation="vertical"
android:layout_marginTop="200d
p" android:padding="8dp">
<LinearLayout
 android:layout_width="wrap_content
  android:layout_height="wrap_conte
  nt" android:orientation="horizontal"
 tools:context=".pr2_layout2" >
  <Button
```

```
android:id="@+id/button"
   android:layout_width="wrap_content
   android:layout_height="wrap_conte
   nt" android:text="DHONI"
   android:padding="15dp"/>
  <Button
   android:id="@+id/button2"
   android:layout_width="108d
   p"
   android:layout_height="wrap_conte
   nt" android:text="SACHIN"
   android:padding="15dp"/>
</LinearLayout>
<LinearLayout
 android:layout_width="wrap_content
 android:layout_height="wrap_conte
 nt" tools:context=".pr2_layout2"
  android:orientation="horizontal">
  <Button
   android:id="@+id/button5"
   android:layout_width="215d
   p"
   android:layout_height="wrap_conte
   nt" android:text="YUVRAJ"
   android:padding="15dp"/>
  <Button
   android:id="@+id/button6
```

```
android:layout_width="194dp"
   android:layout_height="wrap_conte
   nt" android:text="VIRAT"
   />
</LinearLayout>
<LinearLayout
 android:layout_width="wrap_content
 android:layout_height="wrap_conte
 nt" tools:context=".pr2_layout2"
  android:orientation="horizontal">
  <Button
   android:id="@+id/button3"
   android:layout_width="272d
   p"
   android:layout_height="wrap_conte
   nt" android:text="HARBHAJAN"
   android:padding="15dp"/>
  <Button
   android:id="@+id/button4"
   android:layout_width="133d
   p"
   android:layout_height="wrap_conte
   nt" android:text="RAHUL" />
</LinearLayout>
</LinearLayout>
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
 xmlns:android="http://schemas.android.com/apk/res/android"
 xmlns:app="http://schemas.android.com/apk/res-auto"
```

```
xmlns:tools="http://schemas.android.com/tool
s" android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".pr2_layout1">
<ImageView</pre>
 android:id="@+id/imageView4"
 android:layout_width="123dp"
 android:layout_height="128dp"
 android:layout_alignParentEnd="true"
 android:layout_alignParentBottom="tru
 e" android:layout_marginEnd="254dp"
 android:layout_marginBottom="569dp"
 app:srcCompat="@android:mipmap/sym_def_app_icon"/>
<ImageView</pre>
 android:id="@+id/imageView5"
 android:layout_width="123dp"
 android:layout_height="130dp"
 android:layout_alignParentStart="true"
 android:layout_alignParentEnd="true"
 android:layout_alignParentBottom="tru
 e"
 android:layout_marginStart="144dp"
 android:layout_marginEnd="144dp"
 android:layout_marginBottom="320dp"
 app:srcCompat="@android:mipmap/sym_def_app_icon"/>
<ImageView</pre>
 android:id="@+id/imageView
 8"
 android:layout_width="120dp
```

```
android:layout_height="123dp"
android:layout_alignParentEnd="true"
android:layout_alignParentBottom="true"
android:layout_marginEnd="33dp"
android:layout_marginBottom="37dp"
app:srcCompat="@android:mipmap/sym_def_app_ico
n" />
```

</RelativeLayout>

```
Practical list 3
```

Q-2

XML file

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

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"</pre>

xmlns:app="http://schemas.android.com/apk/resauto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity">

<TextView

```
android:id="@+id/textView"
 android:layout_width="wrap_content
 android:layout_height="wrap_conte
 nt" android:text="Calculator"
 android:textSize="30sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt"
 app:layout_constraintHorizontal_bias="0.498"
 app:layout_constraintLeft_toLeftOf="parent"
 app:layout_constraintRight_toRightOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.047" />
<EditText
 android:id="@+id/editText
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:ems="10"
 android:inputType="textPersonName"
 android:text="Enter number 1"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" 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="0.139" />
<EditText
 android:id="@+id/editText
```

```
android:layout width="wrap content"
 android:layout_height="wrap_content"
 android:ems="10"
 android:inputType="textPersonName"
 android:text="Enter number 2"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" 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="0.23" />
<Button
 android:id="@+id/add"
 android:layout width="66dp"
 android:layout_height="51dp"
 android:text="+"
 android:textSize="18sp"
 app:backgroundTint="#7371
```

71"
app:layout_constraintBottom_toBottomOf="pare nt" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.078" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.346" app:rippleColor="#A89696" />

<Button

```
android:id="@+id/div"
 android:layout_width="66dp"
 android:layout_height="51dp"
 android:text="/"
 android:textSize="18sp"
 app:backgroundTint="#7371
 71"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.907"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.345"
 app:rippleColor="#A89696" />
<Button
 android:id="@+id/mul"
 android:layout_width="66dp"
 android:layout_height="51dp"
 android:text="*"
 android:textSize="18sp"
 app:backgroundTint="#7371
 71"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.634"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.345"
 app:rippleColor="#A89696" />
```

```
<Button
 android:id="@+id/su
 b"
 android:layout_width="66dp"
 android:layout_height="51dp
 " android:text="-"
 android:textSize="18sp"
 app:backgroundTint="#7371
 71"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.356"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.345"
 app:rippleColor="#A89696" />
<TextView
 android:id="@+id/textView
 android:layout_width="wrap_content
 android:layout_height="wrap_conte
 nt" android:text="Answer:"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.236"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.457" />
```

```
android:layout_width="157dp"
    android:layout_height="38dp"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="pare
    nt" app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.736"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.453" />
</androidx.constraintlayout.widget.ConstraintLayout>
Java file
package com.example.pr3_q2;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import
android.widget.EditText;
import
android.widget.TextView;
public class MainActivity extends AppCompatActivity {
 EditText e1,e2;
```

android:id="@+id/answer"

```
TextView t1;
Button
a1,sub1,m1,d1; int
num1,num2;
@Override
protected void onCreate(Bundle
  savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  e1=findViewById(R.id.editTex
 t1);
  e2=findViewById(R.id.editTex
 t2);
 t1=findViewById(R.id.answer)
  a1=findViewById(R.id.add)
  sub1=findViewById(R.id.su
  b);
 m1=findViewById(R.id.mul
 );
 d1=findViewById(R.id.div);
 onclick();
}
public void onclick(){
  a1.setOnClickListener(new
    View.OnClickListener() { @Override
```

```
public void onClick(View v) {
   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
     value"; t1.setText(result);
   }
    else
     num1=Integer.parseInt(e1.getText().toString
     ());
     num2=Integer.parseInt(e2.getText().toString
      ()); int sum=num1+num2;
     t1.setText(Integer.toString(sum));
   }
 }
});
sub1.setOnClickListener(new
  View.OnClickListener() { @Override
  public void onClick(View v) {
    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
     value"; t1.setText(result);
   }
    else
   {
     num1=Integer.parseInt(e1.getText().toString
      ());
      num2=Integer.parseInt(e2.getText().toString
      ()); int sum=num1-num2;
     t1.setText(Integer.toString(sum));
```

```
}
  }
});
m1.setOnClickListener(new
  View.OnClickListener() { @Override
  public void onClick(View v) {
    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
      value"; t1.setText(result);
    }
    else
      num1=Integer.parseInt(e1.getText().toString
      ());
      num2=Integer.parseInt(e2.getText().toString
      ()); int sum=num1*num2;
      t1.setText(Integer.toString(sum));
    }
  }
});
d1.setOnClickListener(new
  View.OnClickListener() { @Override
  public void onClick(View v) {
    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
          value"; t1.setText(result);
        }
        else
          num1=Integer.parseInt(e1.getText().toString());
          num2=Integer.parseInt(e2.getText().toString());
          double sum=num1/num2;
          t1.setText(Double.toString(sum));
        }
      }
   });
 }
}
Q-3
XML FILE
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
  xmlns:app="http://schemas.android.com/apk/res-
  auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
```

```
tools:context=".MainActivity">
<TextView
  android:id="@+id/textView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Select any one Course:"
  android:textSize="24sp"
  app:layout_constraintBottom_toBottomOf="pare
  nt" app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.208"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.041" />
<RadioGroup
  android:id="@+id/radiogroup
  android:layout_width="295dp
  android:layout_height="283d
  p"
  app:layout_constraintBottom_toBottomOf="pare
  nt" app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.301"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.169">
  <RadioButton
```

android:id="@+id/radioButton"

android:layout_width="match_paren

```
android:layout_height="wrap_content"
   android:text="MScIT"
   android:textSize="18sp" />
  <RadioButton
   android:id="@+id/radioButton2"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:text="BCA"
   android:textSize="18sp"/>
  <RadioButton
   android:id="@+id/radioButton3"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:text="BBA"
   android:textSize="18sp" />
  <RadioButton
   android:id="@+id/radioButton4"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:text="MBA"
   android:textSize="18sp"/>
</RadioGroup>
<Button
  android:id="@+id/clic
  k"
```

```
android:layout_width="wrap_content
    android:layout_height="wrap_conte
    nt" android:text="Submit"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="pare
    nt" app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.579" />
</androidx.constraintlayout.widget.ConstraintLayout>
JAVA FILE
package com.example.radiobutton;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
import
android.widget.RadioButton;
import
android.widget.RadioGroup;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
```

RadioGroup radiogroup;

```
Button
click;
@Override
protected void onCreate(Bundle
  savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  click=findViewById(R.id.click);
  radiogroup=findViewById(R.id.radiogro
  up);
  radio();
  onclick()
}
public void radio(){
  radiogroup.setOnCheckedChangeListener(new
    RadioGroup.OnCheckedChangeListener() { @Override
    public void onCheckedChanged(RadioGroup group, int checkedId) {
      RadioButton
     radioButton=(RadioButton)group.findViewById(checkedId);
   }
 });
}
public void onclick(){
  click.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
     int
      selectedId=radiogroup.getCheckedRadioButtonId(
      ); if(selectedId == -1)
```

```
Toast.makeText(getApplicationContext(),"No
course is selected", Toast. LENGTH_LONG).show();
       }
       else
       {
          RadioButton radiobutton=(RadioButton)radiogroup.findViewByld(selectedId);
         Toast.makeText(getApplicationContext(),radiobutton.getText(),Toast.LENGTH_LONG
         ).show();
       }
     }
   });
 }
}
Q-4
XML FILE
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
  xmlns:app="http://schemas.android.com/apk/res-
  auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <TextView
    android:layout_width="wrap_content
    android:layout_height="wrap_conte
```

nt" android:text="Select Option:" android:textSize="30sp"

```
app:layout_constraintBottom_toBottomOf="pare
 nt"
 app:layout_constraintHorizontal_bias="0.231"
 app:layout_constraintLeft_toLeftOf="parent"
 app:layout_constraintRight_toRightOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.056" />
<CheckBox
 android:id="@+id/checkBo
 x"
 android:layout_width="wrap_content
 android:layout_height="wrap_conte
 nt" android:text="lphone"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.164"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.143" />
<CheckBox
 android:id="@+id/checkBox2"
 android:layout_width="wrap_conten
 t"
 android:layout_height="wrap_conten
 t" android:text="Android"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
```

app:layout_constraintHorizontal_bias="0.168"

```
app:layout_constraintStart_toStartOf="pare
 nt"
 app:layout_constraintTop_toTopOf="parent
 app:layout_constraintVertical_bias="0.225"
 />
<CheckBox
 android:id="@+id/checkBox3"
 android:layout width="wrap conten
 android:layout_height="wrap_conten
 t" android:text="Windows"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.177"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.307" />
<Button
 android:id="@+id/click"
 android:layout width="wrap content
 android:layout_height="wrap_conten
 t" android:text="Submit"
 android:textSize="30sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" 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="0.457" />

```
JAVA FILE
package com.example.pr_3_q4;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import
android.widget.CheckBox;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
 CheckBox
  ch1,ch2,ch3; Button
 click; @Override
  protected void onCreate(Bundle
   savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   ch1=findViewById(R.id.checkBo
   x);
   ch2=findViewById(R.id.checkBo
   x2);
   ch3=findViewById(R.id.checkBo
   x3);
   click=findViewById(R.id.click);
```

click();

```
}
  public void click(){
    click.setOnClickListener(new
      View.OnClickListener() { @Override
    public void onClick (View v){
      String msg = "You
      checked:";
      if (ch1.isChecked()) {
        msg = msg +
        "Iphone";
      }
      if (ch2.isChecked()) {
        msg = msg + "Android";
      }
      if (ch3.isChecked()) {
        msg = msg + "Windows";
      }
      Toast.makeText(getApplicationContext(), msg, Toast.LENGTH_LONG).show();
    }
   });
  }
```

}

Practical list 4

```
=========
=== XML FILE
activity_progressbar_activity.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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=".progressbar_activity">
  <ProgressBar
    android:id="@+id/progressb
    ar"
    style="?android:attr/progressBarStyleHorizon
    tal" android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:max="100"
    android:progress="1"
    app:layout_constraintBottom_toBottomOf="pare
    nt" 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="0.269" />
```

```
<TextView
   android:id="@+id/txtview
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   app:layout_constraintBottom_toBottomOf="pare
   nt" 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="0.396" />
</androidx.constraintlayout.widget.ConstraintLayout>
_____
=== JAVA FILE
progressbar_activity.java
_____
package com.example.image_selector;
import androidx.appcompat.app.AppCompatActivity;
import
android.os.Bundle;
import
android.os.Handler;
import
android.widget.ProgressBar;
import android.widget.TextView;
public class progressbar_activity extends
```

AppCompatActivity { ProgressBar progress;

```
TextView
txtview; int
status=0;
private Handler handler=new Handler();
@Override
protected void onCreate(Bundle savedInstanceState)
  { super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_progressbar_acti
  vity); Initialization();
}
private void Initialization()
  progress =
  findViewById(R.id.progressbar);
  txtview = findViewById(R.id.txtview);
  new Thread(new
    Runnable() { @Override
    public void run() {
      while(status<10
      0)
        status+=1;
        handler.post(new
          Runnable() { @Override
          public void run() {
            progress.setProgress(stat
            us);
            txtview.setText(status+"/" + progress.getMax());
          }
```

```
});
try {
    Thread.sleep(200);
} catch (InterruptedException
    e) { e.printStackTrace();
}
}
}
}
Output
```

```
=========
=== XML FILE
activity_main.xml
_____
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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">
  <Button
   android:id="@+id/next"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Next"
   app:layout_constraintBottom_toBottomOf="pare
   nt" app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.767"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent"
   app:layout_constraintVertical_bias="0.713" />
  <ImageSwitcher</pre>
```

```
android:id="@+id/imgbrand"
   android:layout width="match parent"
   android:layout_height="wrap_content"
   app:layout_constraintBottom_toBottomOf="pare
   nt" 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="0.207" />
  <Button
   android:id="@+id/previou
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Previous"
   app:layout_constraintBottom_toBottomOf="pare
   nt" app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.141"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent"
   app:layout_constraintVertical_bias="0.713" />
</androidx.constraintlayout.widget.ConstraintLayout>
_____
Java file
MainActivity.jav
```

а

package com.example.image_selector;

```
import androidx.appcompat.app.AppCompatActivity;
import
android.os.Bundle;
import
android.view.View;
import android.view.animation.Animation;
import
android.view.animation.AnimationUtils;
import android.widget.Button;
import
android.widget.lmageSwitcher;
import android.widget.ImageView;
import
android.widget.ViewSwitcher;
public class MainActivity extends
  AppCompatActivity { ImageSwitcher imgbrand;
  Button btnprevious,btnnext;
  private int[]
  brand={R.drawable.b1,R.drawable.b2,R.drawable.b3,R.drawable.b4,R.drawable.b5}; int
  position=0;
  @Override
  protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    controlinitialization();
    Btnclick();
```

```
}
```

private void controlinitialization()

```
{
  imgbrand = findViewById(R.id.imgbrand);
  btnprevious = findViewById(R.id.previous);
  btnnext=findViewById(R.id.next);
  imgbrand.setFactory(new
    ViewSwitcher.ViewFactory() { @Override
    public View makeView() {
      ImageView imgmyview=new ImageView(getApplicationContext());
     imgmyview.setImageResource(brand[positi
     on]); return imgmyview;
   }
 });
}
private void Btnclick()
  btnnext.setOnClickListener(new
   View.OnClickListener() { @Override
    public void onClick(View v)
     { if(position <
     brand.length-1)
       position++
     ; else
       position=0;
     imgbrand.setImageResource(brand[positio
     n]);
   }
 });
```

```
btnprevious.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View
        v) { if(position>0)
        position--;
    else if(position ==
            brand.length) position=0;
    imgbrand.setImageResource(brand[position]);
    }
});
Animation obj = AnimationUtils.loadAnimation(getApplicationContext(), android.R.anim.fade_in); imgbrand.setInAnimation(obj);
}
```

```
Activity_main.xml
package com.example.datetime;
import androidx.appcompat.app.AppCompatActivity;
import
android.content.Intent;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
public class MainActivity extends AppCompatActivity {
  Button
  btndate,btnTime,btndefault,btncustom;
  @Override
  protected void on Create (Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btndate=findViewById(R.id.btndate);
    btnTime=findViewById(R.id.btntime);
    btndefault=findViewById(R.id.btndefaul
    t);
    btncustom=findViewById(R.id.btncusto
    m); Buttonclick();
  }
```

```
private void Buttonclick()
  btndate.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new Intent(getApplicationContext(),datepickerActivity.class);
      startActivity(obj);
   }
  });
  btnTime.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new Intent(getApplicationContext(),TimepickerActivity.class);
     startActivity(obj);
   }
 });
  btndefault.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new
      Intent(getApplicationContext(),DefaultActivity.class);
      startActivity(obj);
   }
  });
  btncustom.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new
      Intent(getApplicationContext(),customActivity.class);
      startActivity(obj);
```

```
}
   });
 }
}
MainActivity.java
package com.example.datetime;
import androidx.appcompat.app.AppCompatActivity;
import
android.content.Intent;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
public class MainActivity extends AppCompatActivity {
  Button
  btndate,btnTime,btndefault,btncustom;
  @Override
  protected void on Create (Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btndate=findViewById(R.id.btndate);
    btnTime=findViewById(R.id.btntime);
    btndefault=findViewById(R.id.btndefaul
    t);
    btncustom=findViewById(R.id.btncusto
```

m); Buttonclick();

```
}
private void Buttonclick()
  btndate.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new Intent(getApplicationContext(),datepickerActivity.class);
      startActivity(obj);
    }
  });
  btnTime.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new Intent(getApplicationContext(),TimepickerActivity.class);
      startActivity(obj);
   }
  });
  btndefault.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new
      Intent(getApplicationContext(),DefaultActivity.class);
      startActivity(obj);
   }
  });
  btncustom.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v) {
      Intent obj=new Intent(getApplicationContext(),customActivity.class);
```

```
}
   });
 }
Date Picker xml file
Activity_datepicker.x
ml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
  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=".datepickerActivity">
  <TextView
    android:id="@+id/txtDate"
    android:layout_width="366d
    p"
```

startActivity(obj);

android:layout_height="48dp

app:layout_constraintBottom_toBottomOf="pare nt" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.488" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent"

```
app:layout_constraintVertical_bias="0.076" />
<Button
 android:id="@+id/button
 android:layout_width="wrap_content"
 android:layout height="wrap content"
 android:text="change Date"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.424"
 app:layout_constraintStart_toStartOf="parent"
 app:layout constraintTop toTopOf="parent"
 app:layout_constraintVertical_bias="0.193" />
<DatePicker
 android:id="@+id/datepicker"
 android:layout_width="356dp
```

android:layout_width="356dp"

android:layout_height="450d
p"

app:layout_constraintBottom_toBottomOf="pare
nt" app:layout_constraintEnd_toEndOf="parent"

app:layout_constraintHorizontal_bias="0.581"

app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toTopOf="parent"

app:layout_constraintVertical_bias="1.0"/>

```
datepickerActivity.java
package com.example.datetime;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import
android.app.DatePickerDialog;
import android.icu.util.Calendar;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
import
android.widget.DatePicker;
import
android.widget.TextView;
public class datepickerActivity extends
    AppCompatActivity { TextView txtdate;
    Button change;
    DatePicker
    datePicker;
    int
  mYear,mMonth,mDay;
  @Override
  protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_datepicker);
    txtdate=findViewById(R.id.txtDate);
```

change=findViewById(R.id.button);

datePicker=findViewById(R.id.datepicker); controlInitiazliazation();

```
ButtonClicks();
}
private void controllnitiazliazation()
{
   txtdate.setText("Current date is :" + getCurrentDate());
}
public String getCurrentDate()
  StringBuilder builder=new StringBuilder();
  builder.append(datePicker.getDayOfMonth()+"
 /"); builder.append((datePicker.getMonth()+ 1)
  +"/"); builder.append(datePicker.getYear());
  return builder.toString();
}
private void ButtonClicks()
{
  change.setOnClickListener(new
    View.OnClickListener() { @RequiresApi(api =
    Build.VERSION_CODES.N) @Override
    public void onClick(View v) {
     //txtdate.setText("Change date is:" +
      getCurrentDate()); Calendar
     c=Calendar.getInstance();
      mYear=c.get(Calendar.YEAR);
      mMonth=c.get(Calendar.MONTH);
```

```
Time picker
Xml file
Activity_timpicker.xml
package com.example.datetime;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import
android.app.DatePickerDialog;
import android.icu.util.Calendar;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
import
android.widget.DatePicker;
import
android.widget.TextView;
public class datepickerActivity extends
    AppCompatActivity { TextView txtdate;
    Button change;
    DatePicker
    datePicker;
    int
  mYear,mMonth,mDay;
```

@Override

```
protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_datepicker);
    txtdate=findViewById(R.id.txtDate);
    change=findViewById(R.id.button);
```

```
datePicker=findViewById(R.id.datepick
  er); controllnitiazliazation();
  ButtonClicks();
}
private void controllnitiazliazation()
{
    txtdate.setText("Current date is :" + getCurrentDate());
}
public String getCurrentDate()
  StringBuilder builder=new StringBuilder();
  builder.append(datePicker.getDayOfMonth()+"
  /"); builder.append((datePicker.getMonth()+ 1)
  +"/"); builder.append(datePicker.getYear());
  return builder.toString();
}
private void ButtonClicks()
  change.setOnClickListener(new
    View.OnClickListener() { @ RequiresApi(api =
    Build.VERSION_CODES.N) @Override
    public void onClick(View v) {
      //txtdate.setText("Change date is:" +
      getCurrentDate()); Calendar
      c=Calendar.getInstance();
```

```
mYear=c.get(Calendar.YEAR);
        mMonth=c.get(Calendar.MONTH);
        mDay=c.get(Calendar.DAY_OF_MO
       NTH);
        DatePickerDialog dialog=new
DatePickerDialog(datepickerActivity.this, new
DatePickerDialog.OnDateSetListener() {
         @Override
         public void onDateSet(DatePicker view, int year, int month, int
           day) { txtdate.setText("selected Date is :" +day+ "/" +(month+1)
           +"/" + year);
         }
       },mYear,mMonth,mDa
       y); dialog.show();
     }
   });
 }
TimepickerActivity.java
package com.example.datetime;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import
android.app.DatePickerDialog;
import
android.app.TimePickerDialog;
import android.icu.util.Calendar;
import android.os.Build;
```

import android.os.Bundle;

```
import android.view.View;
import
android.widget.Button;
import
android.widget.DatePicker;
import android.widget.TextView;
import
android.widget.TimePicker;
public class TimepickerActivity extends
  AppCompatActivity { TextView txtTime;
 Button change;
  TimePicker
 timePicker; int
 mHour,mMinutes;
  @Override
 protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_timepicker);
    txtTime=findViewById(R.id.txtTime);
    change=findViewById(R.id.button);
    timePicker=findViewById(R.id.timepick
    er); controllnitiazliazation();
    ButtonClicks();
 }
 private void controllnitiazliazation()
 {
    txtTime.setText("Current Time is :" + getCurrentTime());
```

```
}
  public String getCurrentTime()
    StringBuilder builder=new StringBuilder();
    builder.append(timePicker.getCurrentHour()+
    ":");
    builder.append(timePicker.getCurrentMinute()
   ); return builder.toString();
 }
  private void ButtonClicks()
    change.setOnClickListener(new
      View.OnClickListener() { @RequiresApi(api =
      Build.VERSION_CODES.N) @Override
      public void onClick(View v) {
       //txtTime.setText("change time is:" +
       getCurrentTime()); Calendar
       c=Calendar.getInstance();
        mHour=c.get(Calendar.HOUR);
        mMinutes=c.get(Calendar.MINUTE);
       TimePickerDialog dialog=new
TimePickerDialog(TimepickerActivity.this, new
TimePickerDialog.OnTimeSetListener() {
          @Override
         public void on Time Set (Time Picker view, int hour, int
           minute) { String am_pm = (hour<12)? "AM" : "PM";
           txtTime.setText("selected Date is :" +hour+ ":" + minute + " "+am_pm);
```

```
}
        },mHour,mMinutes,fals
        e); dialog.show();
      }
    });
 }
}
<LinearLayout android:layout_width="match_parent"</pre>
  android:layout_height="match_parent" android:orientation="vertical"
  xmlns:android="http://schemas.android.com/apk/res/android">
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="57dp"
    android:layout_gravity="center"
    android:text="Success"
    android:textAlignment="center"
    android:textAppearance="@style/TextAppearance.AppCompat.Headline"/>
  <TextView
    android:layout_width="wrap_content"
    android:layout_height="43dp"
    android:layout_gravity="center"
    android:text="This is my Custome dialog demo"
    android:textAlignment="center"
    android:textAppearance="@style/TextAppearance.AppCompat.Medium" />
  <Button
    android:layout_width="210dp"
    android:text="Done"
```

android:layout_height="wrap_content" android:layout_gravity="center"

```
android:layout_marginTop="15dp"
   android:textAlignment="center" />
</LinearLayout>
Custom_activity.java
package com.example.image_view;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.content.DialogInterface;
import android.os.Bundle;
import android.text.AlteredCharSequence;
import android.view.LayoutInflater; import
android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
public class Dailog_demo extends AppCompatActivity {
  Button btnDialog;
  @Override
 protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_dailog_demo);
   btnDialog=findViewById(R.id.btnDialog); btnClick();
  }
```

```
private void btnClick()
  btnDialog.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    //Default dialog box
    /*AlertDialog.Builder builder=new AlertDialog.Builder(Dailog_demo.this);
    builder.setMessage("Do you want to close the Application").setCancelable(false)
        .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
           @Override
          public void onClick(DialogInterface dialog, int which) {
            finish();
          }
        })
        .setNegativeButton("No", new DialogInterface.OnClickListener() {
           @Override
          public void onClick(DialogInterface dialog, int which) {
            dialog.cancel();
          }
        });
    AlertDialog dialog=builder.create();
    dialog.setTitle("Alter Dialog Example");
    dialog.show();*/
    //Custom Dilog box
    AlertDialog.Builder builder=new AlertDialog.Builder(Dailog_demo.this);
```

```
ViewGroup=findViewById(android.R.id.content);
     View dailogView=
LayoutInflater.from(v.getContext()).inflate(R.layout.custome\_lyout,viewGroup,false);
     builder.setView(dailogView);
     AlertDialog dialog=builder.create();
     dialog.show();
   }
  });
 }
Image switcher
_____
=== XML FILE
activity_main.xml
_____
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
  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">
```

```
<Button
 android:id="@+id/next"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Next"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.767"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.713" />
<ImageSwitcher
 android:id="@+id/imgbrand"
 android:layout_width="match_paren
 t"
 android:layout_height="wrap_conte
 nt"
 app:layout_constraintBottom_toBottomOf="pare
 nt" 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="0.207" />
<Button
 android:id="@+id/previou
 s"
 android:layout_width="wrap_conten
 t"
 android:layout_height="wrap_conte
 nt" android:text="Previous"
```

```
app:layout_constraintBottom_toBottomOf="pare nt" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.141" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.713" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
_____
Java file
MainActivity.jav
а
_____
package com.example.image_selector;
import androidx.appcompat.app.AppCompatActivity;
import
android.os.Bundle;
import
android.view.View;
import android.view.animation.Animation;
import
android.view.animation.AnimationUtils;
import android.widget.Button;
import
android.widget.lmageSwitcher;
import android.widget.lmageView;
import
android.widget.ViewSwitcher;
```

public class MainActivity extends

AppCompatActivity { ImageSwitcher imgbrand;

Button btnprevious,btnnext;

```
private int[]
brand={R.drawable.b1,R.drawable.b2,R.drawable.b3,R.drawable.b4,R.drawable.b5}; int
position=0;
@Override
protected void onCreate(Bundle
  savedInstanceState) {
  super.onCreate(savedInstanceState);
  setContentView(R.layout.activity_main);
  controlinitialization();
  Btnclick();
}
private void controlinitialization()
  imgbrand = findViewById(R.id.imgbrand);
  btnprevious = findViewById(R.id.previous);
  btnnext=findViewById(R.id.next);
  imgbrand.setFactory(new
    ViewSwitcher.ViewFactory() { @Override
    public View makeView() {
      ImageView imgmyview=new ImageView(getApplicationContext());
      imgmyview.setImageResource(brand[positi
     on]); return imgmyview;
   }
 });
```

```
}
private void Btnclick()
  btnnext.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View v)
      { if(position <
      brand.length-1)
        position++
      ; else
        position=0;
      imgbrand.setImageResource(brand[positio
      n]);
    }
 });
  btnprevious.setOnClickListener(new
    View.OnClickListener() { @Override
    public void onClick(View
      v) { if(position>0)
        position--;
      else if(position ==
        brand.length) position=0;
      imgbrand.setImageResource(brand[position]);
    }
  });
  Animation obj = AnimationUtils.loadAnimation(getApplicationContext(),
  android.R.anim.fade_in); imgbrand.setInAnimation(obj);
}
```

}

```
PRACTICAL LIST 5
Menifist file
<?xml version="1.0" encoding="utf-8"?>
<manifest
  xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.welcome">
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launch
    er"
    android:label="@string/app_name"
    android:roundlcon="@mipmap/ic_launcher_roun
    d" android:supportsRtl="true"
    android:theme="@style/Theme.Welcome">
    <activity android:name=".hello">
    </activity>
    <activity android:name=".MainActivity">
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
  </application>
</manifest>
```

```
Activity1 java
package com.example.welcome;
import androidx.appcompat.app.AppCompatActivity;
import
android.content.Intent;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
public class MainActivity extends AppCompatActivity {
  Button click;
  @Override
  protected void on Create (Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    click=findViewById(R.id.clic
    k); onclick();
  }
 public void onclick(){
    click.setOnClickListener(new
      View.OnClickListener() { @ Override
```

```
public void onClick(View v) {
        Intent intent = new
        Intent(getApplicationContext(),hello.class);
        startActivity(intent);
     }
   });
  }
}
Activity2 java
package com.example.welcome;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class hello extends AppCompatActivity {
  @Override
 protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_hello);
 }
}
```

```
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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">
  <Button
    android:id="@+id/click"
    android:layout_width="wrap_content
    android:layout_height="wrap_conten
    t" android:text="Welcome"
    android:textSize="36sp"
    app:layout_constraintBottom_toBottomOf="pare
    nt" app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.478" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
Activity2.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
```

```
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=".hello">
<TextView
 android:id="@+id/textVie
 w"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content
            android:text="Hello....Good
 Morining "
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.108"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.061" />
<TextView
 android:id="@+id/textView
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="Welcome to BMIIT"
 android:textSize="24sp"
 app:layout_constraintBottom_toBottomOf="pare
 nt" app:layout_constraintEnd_toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.074"
 app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent
     app:layout_constraintVertical_bias="0.124
                       " />
</androidx.constraintlayout.widget.ConstraintLayout
Q-2
Menifist file
<?xml version="1.0" encoding="utf-8"?>
<manifest
  xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.pr_5_q2">
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launch
    er"
    android:label="@string/app_name"
    android:roundlcon="@mipmap/ic_launcher_rou
    nd" android:supportsRtl="true"
    android:theme="@style/Theme.Pr_5q2">
    <activity android:name=".display"></activity>
    <activity android:name=".MainActivity">
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
  </application>
```

</manifest>

```
Activity1.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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/editview"
    android:layout_width="wrap_conten
    t"
    android:layout_height="wrap_conte
    nt" android:ems="10"
    android:hint="Enter Name"
    android:inputType="textPersonName"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="pare
    nt" 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="0.142" />
```

```
<Button
    android:id="@+id/clic
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="OK"
    android:textSize="24sp"
    tools:layout_editor_absoluteX="153dp"
    tools:layout_editor_absoluteY="240dp"
    />
</androidx.constraintlayout.widget.ConstraintLayo
ut>
Activity2.xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
  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=".display">
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity1.JAVA

package com.example.pr5_2;

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;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  Button click;
  EditText
  edittext;
  @Override
  protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    edittext=findViewById(R.id.editview);
    click=findViewById(R.id.click);
    onclick();
  }
  public void onclick()
    click.setOnClickListener(new
      View.OnClickListener() { @Override
      public void onClick(View v) {
        String name=edittext.getText().toString();
        Intent obj=new
        Intent(getApplicationContext(),display.class);
        obj.putExtra("name",name);
        startActivity(obj);
```

```
}
   });
 }
Activity2.java
package com.example.pr_5_q2;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import
android.widget.Toast;
public class display extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_display);
   String name=getIntent().getStringExtra("name");
   Toast.makeText(getApplicationContext(),name,Toast.LENGTH_LONG)
    .show();
 }
}
```

Inbuilt menu program

```
XML FILE
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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">
  <Button
    android:id="@+id/btninbuilt
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="click here "
    app:layout_constraintBottom_toBottomOf="pare
    nt" app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
JAVAfile
package com.example.inbuilt_application;
import
androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
```

```
import android. Manifest;
import
android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import
android.widget.Button;
public class MainActivity extends AppCompatActivity {
  Button b1;
  @Override
  protected void on Create (Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initialize();
    buttonclicks()
  }
  public void initialize()
   b1 =findViewById(R.id.btninbuilt);
   //ActivityCompat.requestPermissions(this,new
    String[]{Manifest.permission.CALL_PHONE},0);
  }
  private void buttonclicks()
  b1.setOnClickListener(new
```

View.OnClickListener() { @Override

```
public void onClick(View v) {
  /*Intent objIntent=new Intent(Intent.ACTION_VIEW);
 objIntent.putExtra("sms_body", "good morning...This is in-built sms
 demo"); objIntent.putExtra("address", "9825569665");
 objIntent.setType("vnd.android-dir/mms-sms");
 objIntent.setData(Uri.parse("smsto:"));
  startActivity(objIntent);*/
   //TO call
   /*Intent objIntent = new Intent(Intent.ACTION_DIAL,Uri.parse("tel:9825569665"));
   //startActivity(objIntent);*/
  //open im-built browser
  /*Intent objIntent=new Intent(Intent.ACTION_VIEW,Uri.parse("http://www.google.com"));
  startActivity(objIntent);*/
 //open google map
 /* Intent objIntent=new
  Intent(Intent.ACTION_VIEW,Uri.parse("geo:21.1591425,72.6822102"));
  startActivity(objIntent);*/
 //call log
 /* Intent objIntent=new
  Intent(Intent.ACTION_VIEW,Uri.parse("content://call_log/calls"));
  startActivity(objIntent);*/
  //view contact
  /*Intent objIntent=new
  Intent(Intent.ACTION_VIEW,Uri.parse("content://contacts/people/10"));
```

```
startActivity(objIntent);*/
      //Email sending
      Intent objIntent=new Intent(Intent.ACTION_SENDTO);
      // objIntent.setType("message/rdc822");
      objIntent.setData((Uri.parse("mailto:")));
      objIntent.putExtra(Intent.EXTRA_EMAIL,new
      String[]{"18bmiit036@gmail.com"});
      objIntent.putExtra(Intent.EXTRA_SUBJECT,"Android Email In-built intent
      demo"); objIntent.putExtra(Intent.EXTRA_TEXT,"Hello Everyone. !!");
      startActivity(objIntent);
    }
  });
 }
Menifist file
<?xml version="1.0" encoding="utf-8"?>
<manifest
 xmlns:android="http://schemas.android.com/apk/res/android"
 package="com.example.inbuilt_application">
  <uses-permission android:name="android.permission.CALL PHONE"/>
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launch
    er"
```

}

```
activity_main.xml file
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/andro
id"
 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">
  <lmageView
    android:id="@+id/imageView
    android:layout_width="379dp
    android:layout_height="303d
    p"
    app:layout_constraintBottom_toBottomOf="pare
    nt" app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <Button
    android:id="@+id/button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="paren
    t" app:layout_constraintStart_toStartOf="parent"
    />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```
zoom.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
 <scale
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromXScale="0.5"
   android:toXScale="3.0"
   android:fromYScale="0.
   5"
   android:toYScale="3.0"
   android:duration="5000
   " android:pivotX="50%"
   android:pivotY="50%"/>
 <scale
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromXScale="3.0"
   android:toXScale="0.5"
   android:fromYScale="3.0"
   android:toYScale="0.5"
   android:duration="5000"
   android:pivotX="50%"
   android:pivotY="50%"
   android:startOffset="5000"/
</set>
rotate.xml
_____
<?xml version="1.0" encoding="utf-8"?>
```

```
<set xmlns:android="http://schemas.android.com/apk/res/android">
 <rotate xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromDegrees="0
   android:toDegrees="360"
   android:pivotX="50%"
   android:pivotY="50%"
   android:duration="5000"/
   >
 <rotate xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromDegrees="360
   " android:toDegrees="0"
   android:pivotX="50%"
   android:pivotY="50%"
   android:duration="5000"
   android:startOffset="5000"/
</set>
______
fade.xml
_____
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
<alpha
 xmlns:android="http://schemas.android.com/apk/res/android"
 android:fromAlpha="0"
 android:toAlpha="1"
 android:duration="2000"/
```

```
<alpha
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromAlpha="1"
   android:toAlpha="0"
   android:duration="2000"
   android:startOffset="2000"/
</set>
_____
translate.xml
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
 <translate
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromXDelta="0%"
   android:toXDelta="75%"
   android:duration="800"/>
 <translate
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:fromYDelta="75%"
   android:toYDelta="0%"
   android:duration="800"
   android:startOffset="800"/
</set>
_____
blink.xml
_____
```

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

```
<set xmlns:android="http://schemas.android.com/apk/res/android">
 <alpha
 xmlns:android="http://schemas.android.com/apk/res/android"
 android:fromAlpha="0"
 android:toAlpha="1"
 android:duration="600"
 android:repeatMode="revers
 e"
 android:repeatCount="10"/>
</set>
_____
frame_anim_list.xml
<?xml version="1.0" encoding="utf-8"?>
<animation-list
 xmlns:android="http://schemas.android.com/apk/res/android">
 android:onshot="false">
 <item android:drawable="@drawable/t1" android:duration="300"></item>
 <item android:drawable="@drawable/t2" android:duration="300"></item>
 <item android:drawable="@drawable/t3" android:duration="300"></item>
</animation-list>
```