Project 3 : Image Gallery App

1. Activity_main.xml:'

```xml
<?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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".assigh3outputActivity">

    <ImageView
        android:id="@+id/image1"
        android:layout_width="112dp"
        android:layout_height="126dp"
        android:layout_marginStart="16dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.041"
        app:srcCompat="@drawable/images1"
        tools:srcCompat="@drawable/images1" />

    <ImageView
        android:id="@+id/image2"
        android:layout_width="120dp"
        android:layout_height="131dp"
        android:layout_marginStart="15dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toEndOf="@+id/image1"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.041"
        app:srcCompat="@drawable/images2"
        tools:srcCompat="@drawable/images2" />

    <ImageView
        android:id="@+id/image3"
        android:layout_width="118dp"
        android:layout_height="128dp"
        android:layout_marginStart="8dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.272"
        app:layout_constraintStart_toEndOf="@+id/image2"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.041"
        app:srcCompat="@drawable/images3"
        tools:srcCompat="@drawable/images3" />

    <RadioGroup
        android:id="@+id/radioGroup"
```

```xml
        android:layout_width="244dp"
        android:layout_height="147dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.197"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.318">

        <RadioButton
            android:id="@+id/radioImage1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Image-1" />

        <RadioButton
            android:id="@+id/radioImage2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Image-2" />

        <RadioButton
            android:id="@+id/radioImage3"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Image-3" />
    </RadioGroup>

    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Check the box"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.148"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.521" />

    <Button
        android:id="@+id/Submit"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter"
        android:textSize="28sp"
        android:onClick="showImage"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.912"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.528" />
```

```xml
    <ImageView
        android:id="@+id/showImage"
        android:layout_width="331dp"
        android:layout_height="269dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.965"
        tools:srcCompat="@tools:sample/avatars" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

2.Mainactivity.java:

```java
package com.example.bwu_asssighment;

import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.ImageView;
import android.widget.RadioButton;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class assigh3outputActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_assigh3output);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
            return insets;
        });
    }
    public void showImage(View view){
        ImageView i1=  findViewById(R.id.image1);
        ImageView i2=  findViewById(R.id.image2);
        ImageView i3=  findViewById(R.id.image3);
        ImageView i4=  findViewById(R.id.showImage);

        RadioButton r1=findViewById(R.id.radioImage1);
        RadioButton r2=findViewById(R.id.radioImage2);
```

```java
        RadioButton r3=findViewById(R.id.radioImage3);

        CheckBox ch=findViewById(R.id.checkBox);

        if(r1.isChecked()){
            i4.setImageDrawable(i1.getDrawable());
        }else if(r2.isChecked()){
            i4.setImageDrawable(i2.getDrawable());
        }else if(r3.isChecked()){
            i4.setImageDrawable(i3.getDrawable());
        }else{
            Toast t=Toast.makeText(this,"Please Select an
Image...",Toast.LENGTH_LONG);
            t.show();
        }

        if(ch.isChecked()){
            i4.setVisibility(View.VISIBLE);
        }else{
            Toast t=Toast.makeText(this,"Please Select the check
box...",Toast.LENGTH_LONG);
            i4.setVisibility(View.INVISIBLE);
            t.show();
        }
    }
}
```