Name: Muhammad Abu Huraira

Roll# 22F-3853

Section: BCS 6B

Date: February 06,2025

Java file code:

# MainActiviy.java

package com.example.java;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.graphics.Bitmap;

import android.os.Bundle;

import androidx.activity.EdgeToEdge;

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;

import android.provider.MediaStore;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

import android.widget.Toast;

import android.content.Intent;

public class MainActivity extends AppCompatActivity {

Button btn1;

Button moveBtn;

private static final int REQUEST\_CODE=22;

ImageView imagev1;

@SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_main);

btn1=findViewById(R.id.cameraBtn);

imagev1=findViewById(R.id.imageView);

Toast.makeText(this,"This is on create method",Toast.LENGTH\_SHORT).show();

moveBtn=findViewById(R.id.clickBtn);

btn1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent cameraIntent=new Intent(MediaStore.ACTION\_IMAGE\_CAPTURE);

startActivityForResult(cameraIntent,REQUEST\_CODE);

}

});

moveBtn.setOnClickListener(v -> {

Intent intent=new Intent(MainActivity.this,SecondActivity.class);

startActivity(intent);

});

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.backbtn), (v, insets) -> {

Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);

return insets;

});

}

@Override

protected void onStart() {

super.onStart();

Toast.makeText(this,"This is on Start method",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onResume() {

super.onResume();

Toast.makeText(this,"This is on Resume method",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onPause() {

super.onPause();

Toast.makeText(this,"This is on Pause method",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {

if(requestCode==REQUEST\_CODE&& resultCode==RESULT\_OK)

{

Bitmap photo=(Bitmap) data.getExtras().get("data");

imagev1.setImageBitmap(photo);

}

super.onActivityResult(requestCode,resultCode,data);

}

}

# SecondActivity.java

package com.example.java;

import android.content.Intent;

import android.os.Bundle;

import android.widget.Button;

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 SecondActivity extends AppCompatActivity {

Button backBtn;

@Override

protected void onCreate(Bundle savedInstanceState) {

Toast.makeText(this,"Create method for Second Activity",Toast.LENGTH\_SHORT).show();

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_second);

backBtn=findViewById(R.id.back);

backBtn.setOnClickListener(v -> {

Intent intent=new Intent(SecondActivity.this,MainActivity.class);

startActivity(intent);

});

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.back), (v, insets) -> {

Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);

return insets;

});

}

@Override

protected void onDestroy() {

super.onDestroy();

Toast.makeText(this,"Destroy method for Second Activity",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onStart() {

super.onStart();

Toast.makeText(this,"Start method for Second Activity",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onResume() {

super.onResume();

Toast.makeText(this,"Resume method for Second Activity",Toast.LENGTH\_SHORT).show();

}

@Override

protected void onPause() {

super.onPause();

Toast.makeText(this,"Pause method for Second Activity",Toast.LENGTH\_SHORT).show();

}

}

XML CODE

<?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/back"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<Button

android:id="@+id/cameraBtn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="133dp"

android:layout\_marginEnd="133dp"

android:layout\_marginBottom="94dp"

android:text="Take Photo"

app:layout\_constraintBottom\_toTopOf="@+id/clickBtn"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

tools:ignore="MissingConstraints" />

<ImageView

android:id="@+id/imageView"

android:layout\_width="280dp"

android:layout\_height="0dp"

android:layout\_marginStart="92dp"

android:layout\_marginTop="75dp"

android:layout\_marginEnd="93dp"

app:layout\_constraintBottom\_toTopOf="@+id/cameraBtn"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

tools:srcCompat="@tools:sample/avatars" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="133dp"

android:layout\_marginTop="80dp"

android:layout\_marginEnd="133dp"

android:layout\_marginBottom="75dp"

android:scaleX="2"

android:scaleY="2"

android:text="Camera App"

app:layout\_constraintBottom\_toTopOf="@+id/imageView"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.671"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/clickBtn"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="133dp"

android:layout\_marginEnd="133dp"

android:layout\_marginBottom="108dp"

android:text="Move Screen"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

# Second Activity

<?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/activity2"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".SecondActivity">

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="156dp"

android:layout\_marginTop="200dp"

android:layout\_marginEnd="157dp"

android:scaleX="2"

android:scaleY="2"

android:text="Abu Huraira"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="1.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/back"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="161dp"

android:layout\_marginEnd="162dp"

android:layout\_marginBottom="414dp"

android:text="Back"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

Output of the activity

using actual device we can see toast and snapshot



