**CSE4002 MOBILE APP DEVELOPMENT**

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**SLOT:L31+L32+L15+L16+L23+L24**

**LAB DESIGN:**

**QUESTION:**

**DESIGN YOUR OWN APPLICATION WITH DIFFERENT VIEWS AND LISTENERS.**

**MainActivity.java:**

package com.example.a19bce7316\_application;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

public class MainActivity extends AppCompatActivity {

FloatingActionButton fa1,fa2,fa3,fa4;

int flag;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

fa1=findViewById(R.id.fab1);

fa2=findViewById(R.id.fab2);

fa3=findViewById(R.id.fab3);

fa4=findViewById(R.id.fab4);

fa1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

if(flag==0){

Toast.makeText(getApplicationContext(),"fab 'MENU' is clicked",Toast.LENGTH\_LONG).show();

fa2.setVisibility(View.VISIBLE);

fa3.setVisibility(View.VISIBLE);

fa4.setVisibility(View.VISIBLE);

fa2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"fab1 'PREV' is clicked",Toast.LENGTH\_LONG).show();

}

});

fa3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"fab2 'PAUSE' is clicked",Toast.LENGTH\_LONG).show();

}

});

fa4.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"fab3 'NEXT' is clicked",Toast.LENGTH\_LONG).show();

}

});

flag=1;

}

else{

fa2.setVisibility(View.INVISIBLE);

fa3.setVisibility(View.INVISIBLE);

fa4.setVisibility(View.INVISIBLE);

flag=0;

}

};

});

}

}

**activity\_main.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:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:backgroundTint="#C011FF"

android:backgroundTintMode="add"

android:foregroundTint="#C011FF"

android:foregroundTintMode="add"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Floating action Buttons"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:id="@+id/fab1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="32dp"

android:layout\_marginBottom="160dp"

android:clickable="true"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintStart\_toEndOf="@+id/fab2"

app:rippleColor="#C011FF"

app:srcCompat="@android:drawable/ic\_dialog\_dialer" />

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:id="@+id/fab2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginEnd="172dp"

android:layout\_marginBottom="160dp"

android:clickable="true"

android:visibility="invisible"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:srcCompat="@android:drawable/ic\_media\_rew" />

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:id="@+id/fab3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginEnd="33dp"

android:clickable="true"

android:visibility="invisible"

app:layout\_constraintEnd\_toStartOf="@+id/fab4"

app:layout\_constraintTop\_toTopOf="@+id/fab4"

app:srcCompat="@android:drawable/ic\_media\_play" />

<com.google.android.material.floatingactionbutton.FloatingActionButton

android:id="@+id/fab4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="37dp"

android:clickable="true"

android:visibility="invisible"

app:layout\_constraintBottom\_toTopOf="@+id/fab1"

app:layout\_constraintStart\_toStartOf="@+id/fab1"

app:srcCompat="@android:drawable/ic\_media\_ff" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

