**1.calculator**

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"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="My Calculator"

android:textAlignment="center"

android:textColor="@color/black"

android:textSize="40dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.087" />

<EditText

android:id="@+id/n1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Enter 1st number:"

android:textColorHint="@color/black"

android:textSize="25dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.255" />

<EditText

android:id="@+id/n2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Enter 2nd number:"

android:textColorHint="@color/black"

android:textSize="25dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.485"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.375" />

<Button

android:id="@+id/add"

android:layout\_width="90dp"

android:layout\_height="71dp"

android:background="#03A9F4"

android:text="+"

android:textColor="@color/white"

android:textSize="40dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.255"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.562" />

<Button

android:id="@+id/sub"

android:layout\_width="90dp"

android:layout\_height="71dp"

android:background="#03A9F4"

android:text="-"

android:textColor="@color/white"

android:textSize="40dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.719"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.562" />

<Button

android:id="@+id/div"

android:layout\_width="90dp"

android:layout\_height="71dp"

android:background="#03A9F4"

android:text="/"

android:textColor="@color/white"

android:textSize="40dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.719"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.728" />

<Button

android:id="@+id/mul"

android:layout\_width="90dp"

android:layout\_height="71dp"

android:background="#03A9F4"

android:text="\*"

android:textColor="@color/white"

android:textSize="40dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.255"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.728" />

<TextView

android:id="@+id/res"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:hint="Result"

android:textColorHint="@color/black"

android:textSize="35dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.869" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Java code(calculator)**

package com.example.calculator;

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 {

Button add,sub,mul,div;

TextView res;

EditText a,b;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

add=(Button)findViewById(R.id.add);

sub=(Button)findViewById(R.id.sub);

div=(Button)findViewById(R.id.div);

mul=(Button)findViewById(R.id.mul);

a=(EditText)findViewById(R.id.n1);

b=(EditText)findViewById(R.id.n2);

res=(TextView)findViewById(R.id.res);

add.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String x=a.getText().toString();

String y=b.getText().toString();

int i=Integer.parseInt(x);

int j=Integer.parseInt(y);

int k=i+j;

res.setText("Result = "+k);

}

});

sub.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String x=a.getText().toString();

String y=b.getText().toString();

int i=Integer.parseInt(x);

int j=Integer.parseInt(y);

int k=i-j;

res.setText("Result = "+k);

}

});

mul.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String x=a.getText().toString();

String y=b.getText().toString();

int i=Integer.parseInt(x);

int j=Integer.parseInt(y);

int k=i\*j;

res.setText("Result = "+k);

}

});

div.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String x=a.getText().toString();

String y=b.getText().toString();

int i=Integer.parseInt(x);

int j=Integer.parseInt(y);

int k=i/j;

res.setText("Result = "+k);

}

});

}

}

**2. Business card( in this only Xml code is required)**

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:background="#E3B9EA"

android:layout\_height="match\_parent"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="231dp"

android:layout\_height="49dp"

android:text="PIZZA HUT"

android:textAlignment="center"

android:textColor="@android:color/holo\_red\_dark"

android:textSize="36sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.074" />

<ImageView

android:id="@+id/imageView"

android:layout\_width="330dp"

android:layout\_height="198dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.493"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.228"

app:srcCompat="@drawable/pizzahut" />

<TextView

android:id="@+id/textView2"

android:layout\_width="381dp"

android:layout\_height="141dp"

android:text="Pizza Hut is an American restaurant chain and

international franchise which was founded in 1958 in Wichita, Kansas by

Dan and Frank Carney. The company is known for its Italian American

cuisine menu, including pizza and pasta, as well as side dishes and

desserts."

android:textAlignment="center"

android:textColor="@android:color/holo\_red\_light"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.533"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.622" />

<TextView

android:id="@+id/textView3"

android:layout\_width="217dp"

android:layout\_height="102dp"

android:text="Soul Space Arena, 4th Flr, Mall · In Soul Space

Arena Mall Open ⋅ Closes 10PM · 1800 202 2022"

android:textAlignment="center"

android:textColor="@color/cardview\_dark\_background"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.788"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.852" />

</androidx.constraintlayout.widget.ConstraintLayout>

**3.Visiting Card**

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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView7"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="FLIPKART"

android:textSize="34sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.457"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.217" />

<ImageView

android:id="@+id/imageView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.797"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.024"

app:srcCompat="@drawable/img1" />

<TextView

android:id="@+id/textView"

android:layout\_width="390dp"

android:layout\_height="67dp"

android:text="Name of Employee:Pappu Sah Sudi"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.095"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.396" />

<TextView

android:id="@+id/textView2"

android:layout\_width="381dp"

android:layout\_height="55dp"

android:text="Designation: Founder"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.066"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.513" />

<TextView

android:id="@+id/textView3"

android:layout\_width="384dp"

android:layout\_height="61dp"

android:text="Number: 7619612345"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

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="0.617" />

<TextView

android:id="@+id/textView4"

android:layout\_width="393dp"

android:layout\_height="55dp"

android:text="Address: Bangalore"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.111"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.735" />

<TextView

android:id="@+id/textView5"

android:layout\_width="386dp"

android:layout\_height="56dp"

android:text="Email: abc@gmil.com"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.24"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.872" />

<TextView

android:id="@+id/textView6"

android:layout\_width="362dp"

android:layout\_height="57dp"

android:text="www.flipkart.com"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.122"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.997" />

</androidx.constraintlayout.widget.ConstraintLayout>

**4.Unit converter**

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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView2"

android:layout\_width="357dp"

android:layout\_height="55dp"

android:text="unit\_converter"

android:textAlignment="center"

android:textAllCaps="false"

android:textColor="@color/black"

android:textSize="36sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.468"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.127" />

<TextView

android:id="@+id/textView"

android:layout\_width="128dp"

android:layout\_height="21dp"

android:text="1nh18cs137"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.104"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.043" />

<EditText

android:id="@+id/val"

android:layout\_width="241dp"

android:layout\_height="51dp"

android:ems="10"

android:hint="Enter number"

android:inputType="textPersonName"

android:textAlignment="center"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.427"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.278" />

<EditText

android:id="@+id/res"

android:layout\_width="242dp"

android:layout\_height="53dp"

android:ems="10"

android:hint="result"

android:inputType="textPersonName"

android:textAlignment="center"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.426"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.389" />

<RadioGroup

android:id="@+id/radgrp"

android:layout\_width="275dp"

android:layout\_height="184dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.402"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.639">

<RadioButton

android:id="@+id/rb1"

android:layout\_width="match\_parent"

android:layout\_height="48dp"

android:text="cm\_to\_m"

android:textAlignment="textStart"

android:textSize="18sp" />

<RadioButton

android:id="@+id/rb2"

android:layout\_width="match\_parent"

android:layout\_height="44dp"

android:text="m\_to\_cm"

android:textAlignment="textStart"

android:textSize="18sp" />

<RadioButton

android:id="@+id/rb3"

android:layout\_width="match\_parent"

android:layout\_height="47dp"

android:text="feet\_to\_inch"

android:textAlignment="textStart"

android:textSize="18sp"

tools:ignore="DuplicateIds" />

<RadioButton

android:id="@+id/rb4"

android:layout\_width="match\_parent"

android:layout\_height="44dp"

android:text="inch\_to\_feet"

android:textSize="18sp" />

</RadioGroup>

<Button

android:id="@+id/conv\_bt"

android:layout\_width="181dp"

android:layout\_height="58dp"

android:text="convert"

android:textAlignment="center"

android:textSize="30sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.435"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.86" />

</androidx.constraintlayout.widget.ConstraintLayout>

**javacode(unit converter)**

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.Toast;

public class MainActivity extends AppCompatActivity {

EditText val,res;

Button conv\_bt;

RadioButton rb1,rb2,rb3,rb4;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

val = (EditText)findViewById(R.id.val);

res = (EditText)findViewById(R.id.res);

conv\_bt = (Button)findViewById(R.id.conv\_bt);

rb1 = (RadioButton)findViewById(R.id.rb1);

rb2 = (RadioButton)findViewById(R.id.rb2);

rb3 = (RadioButton)findViewById(R.id.rb3);

rb4 = (RadioButton)findViewById(R.id.rb4);

conv\_bt.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String a = val.getText().toString();

float n = Float.parseFloat(a);

float c;

if(rb1.isChecked()) {

c=n/100;

res.setText("Result ="+c);

}

else if(rb2.isChecked()) {

c=n\*100;

res.setText("Result ="+c);

}

else if(rb3.isChecked()) {

c=n\*12;

res.setText("Result ="+c);

}

else if(rb4.isChecked()) {

c=n/12;

res.setText("Result ="+c);

}

}

});

}

}

**5. CURRENCY CONVERTER**

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"

tools:context=".MainActivity">

<Spinner

android:id="@+id/sp1"

android:layout\_width="311dp"

android:layout\_height="61dp"

android:entries="@array/sp\_list"

android:textAlignment="center"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.473" />

<TextView

android:id="@+id/textView"

android:layout\_width="373dp"

android:layout\_height="61dp"

android:text="CURRENCY CONVERTER"

android:textAlignment="center"

android:textColor="@color/purple\_500"

android:textSize="30sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.088" />

<TextView

android:id="@+id/textView2"

android:layout\_width="183dp"

android:layout\_height="43dp"

android:text="Select Option:"

android:textAlignment="viewStart"

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="0.375" />

<Button

android:id="@+id/bt\_conv"

android:layout\_width="304dp"

android:layout\_height="66dp"

android:text="CONVERT"

android:textAlignment="center"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.47"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.578" />

<TextView

android:id="@+id/res\_tv"

android:layout\_width="310dp"

android:layout\_height="91dp"

android:text="Result"

android:textAlignment="center"

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="0.747" />

<EditText

android:id="@+id/val"

:layout\_constraintStart\_toStartOf="parent"

android:layout\_width="277dp"

android:layout\_height="51dp"

android:ems="10"

android:hint="Enter amount:"

android:inputType="textPersonName"

android:textAlignment="center"

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="0.251" />

</androidx.constraintlayout.widget.ConstraintLayout>

Java code(CURRENCY CONVERTER)

package com.example.currencyconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Spinner;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

Spinner sp1;

TextView res\_tv;

Button bt\_conv;

EditText val;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

sp1 = (Spinner)findViewById(R.id.sp1);

bt\_conv = (Button)findViewById(R.id.bt\_conv);

res\_tv = (TextView)findViewById(R.id.res\_tv);

val = (EditText) findViewById(R.id.val);

bt\_conv.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

int pos = sp1.getSelectedItemPosition();

String a = val.getText().toString();

float n = Float.parseFloat(a);

float res;

if(pos == 1){

res = n\*73;

res\_tv.setText("Result ="+res);

}

else if(pos == 2){

res = n/73;

res\_tv.setText("Result ="+res);

}

else if(pos == 3){

res = n\*95;

res\_tv.setText("Result ="+res);

}

else if(pos == 4){

res = n/95;res\_tv.setText("Result ="+res);

}

else{

Toast.makeText(getApplicationContext(),"Please select option",Toast.LENGTH\_LONG).show();

}

}

});

}

}

**STRING.XML(CUrrency Converter)**

<resources>

<string name="app\_name">currency converter</string>

<string-array name = "sp\_list">

<item> Select</item>

<item> USD to INR</item>

<item> INR to USD</item>

<item> GBP to INR</item>

<item> USD to GBP</item>

</string-array>

</resources>

**6. Login Page**

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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView3"

android:layout\_width="138dp"

android:layout\_height="61dp"

android:text="SignIn"

android:textAlignment="center"

android:textSize="34sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.136" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Password"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.161"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.499" />

<TextView

android:id="@+id/textView2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="E-mail"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.142"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.347" />

<EditText

android:id="@+id/editTextTextPassword"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPassword"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.875"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:hint="user name"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.87"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.354" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="LOGIN"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.452"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.743" />

</androidx.constraintlayout.widget.ConstraintLayout>

Javcode(login page)

package com.example.login;

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 {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

EditText uid,pwd;

Button login;

uid=(EditText) findViewById(R.id.editTextTextPersonName);

pwd=(EditText) findViewById(R.id.editTextTextPassword);

login=(Button) findViewById(R.id.button);

login.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if (uid.getText().toString().equals("Ramiz") && pwd.getText().toString().equals("ramiz123")) {

Toast.makeText(MainActivity.this, "login successful", Toast.LENGTH\_SHORT).show();

Intent i = new Intent(MainActivity.this, welcome.class);

i.putExtra("username", uid.getText().toString());

startActivity(i);

}

else{

Toast.makeText(MainActivity.this, "login unsuccessful", Toast.LENGTH\_SHORT).show();

}

}

});

}

}

XML for welcome page(login Page)

<?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=".welcome">

<TextView

android:id="@+id/x"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome"

android:textSize="34dp"

android:textColor="@color/black"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.471"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.473" />

</androidx.constraintlayout.widget.ConstraintLayout>

java code for welcome page(login Page)

package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class welcome extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_welcome);

Intent i=getIntent();

String s1 = i.getStringExtra("username");

TextView tv1 = (TextView) findViewById(R.id.x);

tv1.setText("login successfull welcome :" +s1);

}

}

**7. tourist spot**

java code for main file

package com.example.tourism;

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 nxt\_btn;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

nxt\_btn = (Button)findViewById(R.id.nxt\_btn);

nxt\_btn.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View view) {

Intent i = new Intent(getApplicationContext(), TouristSpots.class);

startActivity(i);

}

});

}

}

xml code for main file

<?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=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="197dp"

android:layout\_height="119dp"

android:text="WELCOME TO TOURIST SPOT"

android:textAlignment="center"

android:textSize="30sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

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="0.178" />

<Button

android:id="@+id/nxt\_btn"

android:layout\_width="118dp"

android:layout\_height="48dp"

android:text="Next"

android:textAlignment="center"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<TextView

android:id="@+id/textView2"

android:layout\_width="162dp"

android:layout\_height="28dp"

android:text="1NH18cs137"

android:textAlignment="center"

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="0.73" />

</androidx.constraintlayout.widget.ConstraintLayout>

java code make name as TouristSpots

package com.example.tourism;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

import android.widget.Toast;

public class TouristSpots extends AppCompatActivity {

ImageView img\_andaman,img\_jog,img\_dal;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_tourist\_spots);

img\_andaman = (ImageView)findViewById(R.id.andaman\_img);

img\_jog = (ImageView)findViewById(R.id.img\_jog);

img\_dal = (ImageView)findViewById(R.id.img\_dal);

img\_andaman.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"Andaman ",Toast.LENGTH\_SHORT).show();

String url="https://www.planetware.com/tourist-attractions/nepal-nep.htm";

Intent i1 = new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(i1);

}

});

img\_jog.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"Jog falls ",Toast.LENGTH\_SHORT).show();

String url="https://www.planetware.com/tourist-attractions/nepal-nep.htm";

Intent i2 = new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(i2);

}

});

img\_dal.setOnClickListener(new View.OnClickListener(){

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(),"Dal Lake ",Toast.LENGTH\_SHORT).show();

String url="https://www.planetware.com/tourist-attractions/nepal-nep.htm";

Intent i3 = new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(i3);

}

});

}

}

xml code.....here download drawables from chrome put it to desktop with name i1, i4 , i5 and import it to android studio.

<?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=".TouristSpots">

<TextView

android:id="@+id/textView3"

android:layout\_width="326dp"

android:layout\_height="73dp"

android:text="Natural Tourist Spots in India"

android:textAlignment="center"

android:textSize="24sp"

android:textStyle="italic"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.087" />

<ImageView

android:id="@+id/andaman\_img"

android:layout\_width="226dp"

android:layout\_height="134dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.296"

app:srcCompat="@drawable/i1" />

<ImageView

android:id="@+id/img\_jog"

android:layout\_width="250dp"

android:layout\_height="140dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.637"

app:srcCompat="@drawable/i4" />

<ImageView

android:id="@+id/img\_dal"

android:layout\_width="250dp"

android:layout\_height="140dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.952"

app:srcCompat="@drawable/i5" />

</androidx.constraintlayout.widget.ConstraintLayout>

**8. sms**

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:background="#BFE6E3"

tools:context=".MainActivity">

<TextView

android:layout\_width="163dp"

android:layout\_height="25dp"

android:text="1NH17CS123"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.319"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.897" />

<TextView

android:id="@+id/textView"

android:layout\_width="224dp"

android:layout\_height="50dp"

android:text="SMS SERVICE"

android:textAlignment="center"

android:textColor="@android:color/holo\_green\_dark"

android:textSize="30sp"

android:textStyle="bold"

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="0.071" />

<EditText

android:id="@+id/et\_mess"

android:layout\_width="277dp"

android:layout\_height="114dp"

android:ems="10"

android:hint="Type message"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.5"

app:layout\_constraintStart\_toStartOf="parent"

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

<EditText

android:id="@+id/et\_mob"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Mobile Number"

android:inputType="phone"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.333"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.332" />

<Button

android:id="@+id/bt\_send"

android:layout\_width="172dp"

android:layout\_height="60dp"

android:backgroundTint="@color/black"

android:text="Send SMS"

android:textSize="18sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.445"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.683" />

</androidx.constraintlayout.widget.ConstraintLayout>

java code(SMS)

package com.example.sms;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;

import android.Manifest;

import android.app.PendingIntent;

import android.content.pm.PackageManager;

import android.os.Bundle;

import android.telephony.SmsManager;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

EditText et\_mob,et\_mess;

Button bt\_send;

PendingIntent sentPI, deliveredPI;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

et\_mob = (EditText)findViewById(R.id.et\_mob);

et\_mess = (EditText)findViewById(R.id.et\_mess);

bt\_send = (Button)findViewById(R.id.bt\_send);

bt\_send.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String message = et\_mess.getText().toString();

String telNr = et\_mob.getText().toString();

if(telNr.length()==10)

{

if (ContextCompat.checkSelfPermission(MainActivity.this,

Manifest.permission.SEND\_SMS) != PackageManager.PERMISSION\_GRANTED)

{

ActivityCompat.requestPermissions(MainActivity.this,

new String[]{Manifest.permission.SEND\_SMS}, 1);

Toast.makeText(getApplicationContext(), "SMS not sent!", Toast.LENGTH\_SHORT).show();

}

else

{

SmsManager sms = SmsManager.getDefault();

sms.sendTextMessage(telNr, null, message, sentPI, deliveredPI);

Toast.makeText(getApplicationContext(), "SMS sent successfully!", Toast.LENGTH\_SHORT).show();

}

} else

{ Toast.makeText(getApplicationContext(), "SMS not sent !", Toast.LENGTH\_SHORT).show();

Toast.makeText(getApplicationContext(), "Enter 10 digit number !", Toast.LENGTH\_SHORT).show();

}

}

});

}

}

Menifest(SMS)

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.sms">

<uses-permission android:name="android.permission.SEND\_SMS"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.SMS">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

Theme or String.xml(SMS)

<resources xmlns:tools="http://schemas.android.com/tools">

<!-- Base application theme. -->

<style name="Theme.SMS" parent="Theme.MaterialComponents.DayNight.DarkActionBar">

<!-- Primary brand color. -->

<item name="colorPrimary">@color/purple\_500</item>

<item name="colorPrimaryVariant">@color/purple\_700</item>

<item name="colorOnPrimary">@color/white</item>

<!-- Secondary brand color. -->

<item name="colorSecondary">@color/teal\_200</item>

<item name="colorSecondaryVariant">@color/teal\_700</item>

<item name="colorOnSecondary">@color/black</item>

<!-- Status bar color. -->

<item name="android:statusBarColor" tools:targetApi="l">?attr/colorPrimaryVariant</item>

<!-- Customize your theme here. -->

</style>

</resources>

**9. Student database**

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"

tools:context=".MainActivity">

<TextView

android:layout\_width="180dp"

android:layout\_height="26dp"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintLeft\_toLeftOf="parent"

app:layout\_constraintRight\_toRightOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.977" />

<TextView

android:id="@+id/textView"

android:layout\_width="308dp"

android:layout\_height="51dp"

android:text="STUDENT DATABASE"

android:textAlignment="center"

android:textSize="30sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.579"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.055" />

<TextView

android:id="@+id/textView2"

android:layout\_width="132dp"

android:layout\_height="40dp"

android:text="USN"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.121"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.169" />

<TextView

android:id="@+id/textView3"

android:layout\_width="136dp"

android:layout\_height="48dp"

android:text="Student Name"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.109"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.26" />

<TextView

android:id="@+id/textView4"

android:layout\_width="128dp"

android:layout\_height="49dp"

android:text="Semester"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.112"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.345" />

<EditText

android:id="@+id/et\_usn"

android:layout\_width="199dp"

android:layout\_height="42dp"

android:ems="10"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.85"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.174" />

<EditText

android:id="@+id/et\_name"

android:layout\_width="212dp"

android:layout\_height="39dp"

android:ems="10"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.869"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.27" />

<EditText

android:id="@+id/et\_sem"

android:layout\_width="204dp"

android:layout\_height="43dp"

android:ems="10"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.835"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.349" />

<Button

android:id="@+id/bt\_save"

android:layout\_width="122dp"

android:layout\_height="50dp"

android:onClick="inserti"

android:text="SAVE"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.173"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.524" />

<Button

android:id="@+id/bt\_report"

android:layout\_width="138dp"

android:layout\_height="46dp"

android:onClick="report"

android:text="REPORT"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.72"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.524" />

<TextView

android:id="@+id/tv\_op"

android:layout\_width="355dp"

android:layout\_height="205dp"

android:text="Result:"

android:textAlignment="center"

android:textSize="18sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.813" />

</androidx.constraintlayout.widget.ConstraintLayout>

Javacode(student database)

package com.example.hospitalmonitoring;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

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 {

DatabaseHelper db;

EditText et\_usn;

EditText et\_name;

EditText et\_sem;

Button bt\_save;

Button bt\_report;

TextView tv\_op;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

db = new DatabaseHelper(this);

et\_usn = (EditText)findViewById(R.id.et\_usn);

et\_name = (EditText)findViewById(R.id.et\_name);

et\_sem = (EditText)findViewById(R.id.et\_sem);

bt\_save = (Button)findViewById(R.id.bt\_save);

bt\_report = (Button)findViewById(R.id.bt\_report);

tv\_op = (TextView)findViewById(R.id.tv\_op);

}

public void inserti (View view) {

boolean status = db.insert(

et\_usn.getText().toString(),

et\_name.getText().toString(),

et\_sem.getText().toString());

}

public void report(View view) {

Cursor c = db.select();

if (c.getCount() ==0)

return;

StringBuffer buf = new StringBuffer();

while (c.moveToNext()) {

buf.append (" USN: "+c.getString(1));

buf.append (" Student Name: "+c.getString(2));

buf.append (" Semester: "+c.getString(3));

buf.append("\n");

}

tv\_op.setText(buf);

}

public void cleartext (View view) {

et\_usn.setText("");

et\_name.setText("");

et\_sem.setText("");

}

}

DatabaseHelper(student Database)

package com.example.hospitalmonitoring;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DatabaseHelper extends SQLiteOpenHelper {

DatabaseHelper (Context context) {

super(context, "Student.db", null, 1);

}

public void onCreate (SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("CREATE TABLE LAB ( PATID integer PRIMARY KEY AUTOINCREMENT, USN TEXT, STUDENT\_NAME TEXT, SEMESTER TEXT);");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1)

{

sqLiteDatabase.execSQL("DROP TABLE IF EXISTS LAB ");

onCreate(sqLiteDatabase);

}

public boolean insert (String usn, String name, String sem) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues cv = new ContentValues();

cv.put("USN", usn);

cv.put("STUDENT\_NAME", name);

cv.put("SEMESTER", sem);

long status = db.insert("LAB",null,cv);

if (status == -1)

return false;

else

return true;

}

public Cursor select() {

SQLiteDatabase db = this.getWritableDatabase();

Cursor cr = db.rawQuery("SELECT \* FROM LAB", null);

return cr;

}

}

**10. Health Monitoring**

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"

tools:context=".MainActivity">

<EditText

android:id="@+id/et3"

android:layout\_width="246dp"

android:layout\_height="51dp"

android:background="#FFFFFF"

android:ems="10"

android:gravity="center"

android:hint="Enter HB level"

android:inputType="number"

android:textColor="#DA0E0E"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.903"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.366" />

<EditText

android:id="@+id/e1"

android:layout\_width="246dp"

android:layout\_height="51dp"

android:background="#FFFFFF"

android:ems="10"

android:gravity="center"

android:hint="Enter name"

android:inputType="textPersonName"

android:textColor="#DA0E0E"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.872"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.15" />

<EditText

android:id="@+id/et4"

android:layout\_width="246dp"

android:layout\_height="51dp"

android:background="#FFFFFF"

android:ems="10"

android:gravity="center"

android:hint="Enter blood sugar"

android:inputType="number"

android:textColor="#DA0E0E"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.903"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.495" />

<EditText

android:id="@+id/et2"

android:layout\_width="246dp"

android:layout\_height="51dp"

android:background="#FFFFFF"

android:ems="10"

android:gravity="center"

android:hint="Enter age"

android:inputType="number"

android:textColor="#DA0E0E"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.903"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.258" />

<TextView

android:layout\_width="105dp"

android:layout\_height="46dp"

android:background="#FFFFFF"

android:text="Name : "

android:textColor="#DA3E0F"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.065"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.157" />

<TextView

android:layout\_width="115dp"

android:layout\_height="45dp"

android:background="#FFFFFF"

android:text="Age :"

android:textColor="#D54113"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.068"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.265" />

<TextView

android:layout\_width="109dp"

android:layout\_height="37dp"

android:background="#FFFFFF"

android:text="HB Level :"

android:textColor="#D84315"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.071"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.379" />

<TextView

android:layout\_width="124dp"

android:layout\_height="50dp"

android:background="#FFFFFF"

android:text="Blood Sugar :"

android:textColor="#D84315"

android:textSize="20sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.07"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.497" />

<Button

android:id="@+id/display"

android:layout\_width="106dp"

android:layout\_height="60dp"

android:background="#9F1F1F"

android:onClick="report"

android:text="Report"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.744"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.596" />

<Button

android:id="@+id/save"

android:layout\_width="106dp"

android:layout\_height="60dp"

android:background="#9F1F1F"

android:onClick="insert"

android:shadowColor="@color/black"

android:text="Insert"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.2"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.596" />

<TextView

android:id="@+id/tv"

android:layout\_width="387dp"

android:layout\_height="211dp"

android:background="#FFFFFF"

android:gravity="center\_horizontal"

android:textColor="#E61919"

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="0.918" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:gravity="center"

android:text="Health Monitor"

android:textColor="#D54113"

android:textSize="34sp"

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="0.063" />

</androidx.constraintlayout.widget.ConstraintLayout>

Java code

package com.example.hospitalmonitoring;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

DatabaseHelper db;

EditText e1,e2,e3,e4;

TextView tv;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

db=new DatabaseHelper(this);

e1=findViewById(R.id.e1);

e2=findViewById(R.id.et2);

e3=findViewById(R.id.et3);

e4=findViewById(R.id.et4);

tv=findViewById(R.id.tv);

}

public void insert(View view){

boolean status =db.insert(e1.getText().toString(),

Integer.parseInt(e2.getText().toString()),

Integer.parseInt(e3.getText().toString()),

Integer.parseInt(e4.getText().toString()));

}

public void report(View view){

Cursor c=db.select();

if (c.getCount()==0){

return;

}

StringBuffer buf=new StringBuffer();

while(c.moveToNext()){

buf.append("Name : "+c.getString(1));

buf.append(" Age : "+c.getString(2));

buf.append(" Haemoglobin : "+c.getString(3));

buf.append(" Sugar : "+c.getString(4));

buf.append("\n");

tv.setText(buf);

}

}

}

Database (Health monitoring)

package com.example.hospitalmonitoring;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class DatabaseHelper extends SQLiteOpenHelper {

DatabaseHelper (Context context){

super(context,"Health.db",null,1);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("CREATE TABLE LAB (PATID integer PRIMARY KEY AUTOINCREMENT, PANAME TEXT,AGE INTEGER, HB INTEGER,SUGAR INTEGER);");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int oldVersion, int newVersion) {

sqLiteDatabase.execSQL("DROP TABLE IF EXISTS LAB");

onCreate(sqLiteDatabase);

}

public boolean insert(String name, int age,int hb,int sugar){

SQLiteDatabase db=this.getWritableDatabase();

ContentValues cv=new ContentValues();

cv.put("PANAME",name);

cv.put("AGE",age);

cv.put("HB",hb);

cv.put("SUGAR",sugar);

long status=db.insert("LAB",null,cv);

if (status==-1){

return false;

}

else

return true;

}

public Cursor select(){

SQLiteDatabase db=this.getWritableDatabase();

Cursor cr=db.rawQuery("SELECT \* FROM LAB",null);

return cr;

}

}

**11. hospital manager**

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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="322dp"

android:layout\_height="55dp"

android:text="HOSPITAL MANAGER"

android:textSize="24sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="1.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.081" />

<EditText

android:id="@+id/et1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="HOSPITAL ID"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.497"

app:layout\_constraintStart\_toStartOf="parent"

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

app:layout\_constraintVertical\_bias="0.069" />

<EditText

android:id="@+id/et2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="HOSPITAL NAME"

android:inputType="textPersonName"

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="0.332" />

<Button

android:id="@+id/btn1"

android:layout\_width="177dp"

android:layout\_height="67dp"

android:text="Save"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.564" />

<Button

android:id="@+id/btn2"

android:layout\_width="177dp"

android:layout\_height="62dp"

android:text="View"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.723" />

<EditText

android:id="@+id/et3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="LOCATION"

android:inputType="textPersonName"

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="0.43" />

<TextView

android:id="@+id/tv"

android:layout\_width="362dp"

android:layout\_height="90dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.489"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.975" />

</androidx.constraintlayout.widget.ConstraintLayout>

Java code(Hospital Manager)

package com.example.health;

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;

import java.io.BufferedReader;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.InputStreamReader;

public class MainActivity extends AppCompatActivity {

Button btn1,btn2;

EditText et1,et2,et3;

TextView tv;

String s1,s2,s3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn1=(Button) findViewById(R.id.btn1);

btn2=(Button) findViewById(R.id.btn2);

tv=(TextView) findViewById(R.id.tv);

et1=(EditText) findViewById(R.id.et1);

et2=(EditText) findViewById(R.id.et2);

et3=(EditText) findViewById(R.id.et3);

btn1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

save(v);

}

});

btn2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

load(v);

}

});

}

public void save(View view)

{

s1=et1.getText().toString();

s2=et2.getText().toString();

s3=s1+" "+s2+" "+et3.getText().toString()+"\n";

try{

FileOutputStream fos = openFileOutput("file1.txt",MODE\_APPEND);

fos.write(s3.getBytes());

}

catch (FileNotFoundException e)

{

e.printStackTrace();

}

catch (IOException e)

{

e.printStackTrace();

}

}

public void load(View v)

{

try {

FileInputStream fis = openFileInput("file1.txt");

InputStreamReader isr = new InputStreamReader(fis);

BufferedReader br = new BufferedReader(isr);

StringBuilder sb = new StringBuilder();

String text;

while ((text = br.readLine()) != null)

{

sb.append(text);

sb.append("\n");

}

tv.setText(sb.toString());

}

catch (FileNotFoundException e)

{

e.printStackTrace();

}

catch (IOException e)

{

e.printStackTrace();

}

}

}

**12. expense manager**

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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textView"

android:layout\_width="246dp"

android:layout\_height="47dp"

android:text="Expense Manager"

android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.606"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.127" />

<EditText

android:id="@+id/et1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Category"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.552"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.316" />

<EditText

android:id="@+id/et2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="Price"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.557"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.432" />

<Button

android:id="@+id/btn1"

android:layout\_width="191dp"

android:layout\_height="46dp"

android:text="Add Expence"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.545"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.56" />

<Button

android:id="@+id/btn2"

android:layout\_width="202dp"

android:layout\_height="51dp"

android:text="View Expense"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.574"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.664" />

<TextView

android:id="@+id/tv"

android:layout\_width="333dp"

android:layout\_height="102dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.93" />

</androidx.constraintlayout.widget.ConstraintLayout>

javacode(Expense Manager)

package com.example.expensemanager;

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;

import java.io.BufferedReader;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.InputStreamReader;

import java.nio.charset.StandardCharsets;

public class MainActivity extends AppCompatActivity {

Button btn1,btn2;

EditText et1,et2;

TextView tv;

String s1,s2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btn1=(Button) findViewById(R.id.btn1);

btn2=(Button) findViewById(R.id.btn2);

tv=(TextView) findViewById(R.id.tv);

et1=(EditText) findViewById(R.id.et1);

et2=(EditText) findViewById(R.id.et2);

btn1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

save(v);

}

});

btn2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

load(v);

}

});

}

public void save(View view)

{

s1=et1.getText().toString();

s2=s1+" "+et2.getText().toString()+"\n";

try{

FileOutputStream fos = openFileOutput("file1.txt",MODE\_APPEND);

fos.write(s2.getBytes());

}

catch (FileNotFoundException e)

{

e.printStackTrace();

}

catch (IOException e)

{

e.printStackTrace();

}

}

public void load(View v)

{

try {

FileInputStream fis = openFileInput("file1.txt");

InputStreamReader isr = new InputStreamReader(fis);

BufferedReader br = new BufferedReader(isr);

StringBuilder sb = new StringBuilder();

String text;

while ((text = br.readLine()) != null)

{

sb.append(text);

sb.append("\n");

}

tv.setText(sb.toString());

}

catch (FileNotFoundException e)

{

e.printStackTrace();

}

catch (IOException e)

{

e.printStackTrace();

}

}

}

**13. gallery and dial**

<?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=".MainActivity">

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="GALLERY"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<Button

android:id="@+id/b2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="DIAL"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.667" />

<EditText

android:id="@+id/e2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:hint="PHONE NUMBER"

android:inputType="textPersonName"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.547"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.911" />

</androidx.constraintlayout.widget.ConstraintLayout>

javacode(gallery and dial)

package com.example.galleryanddial;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b1,b2;

EditText e2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=(Button)findViewById(R.id.b1);

b2=(Button)findViewById(R.id.b2);

e2=(EditText)findViewById(R.id.e2);

b1.setOnClickListener(v ->{

Intent i = new Intent();

i.setAction(Intent.ACTION\_VIEW);

i.setData(Uri.parse("content://media/external/images/media/"));

startActivity(i);

});

b2.setOnClickListener(v ->{

Intent i = new Intent();

i.setAction(Intent.ACTION\_DIAL);

i.setData(Uri.parse("tel:" +e2.getText()));

startActivity(i);

});

}

}

**14. music player**

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"

tools:context=".MainActivity">

<Button

android:id="@+id/button"

android:layout\_width="154dp"

android:layout\_height="64dp"

android:text="startservice"

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="0.242" />

<Button

android:id="@+id/button2"

android:layout\_width="146dp"

android:layout\_height="57dp"

android:text="stopservice"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

mainActivity.java

package com.example.musicplayer;

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 {

private Button bt\_start,bt\_stop;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

bt\_start = (Button)findViewById(R.id.button);

bt\_stop = (Button)findViewById(R.id.button2);

bt\_start.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

startService(new Intent(getApplicationContext(), MediaService.class));

}

});

bt\_stop.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

stopService(new Intent(getApplicationContext(), MediaService.class));

}

});

}

}

mediaservice.java

package com.example.musicplayer;

import android.app.Service;

import android.content.Intent;

import android.media.MediaPlayer;

import android.os.IBinder;

import android.provider.Settings;

public class MediaService extends Service {

private MediaPlayer player;

public MediaService() {

}

@Override

public IBinder onBind(Intent intent) {

// TODO: Return the communication channel to the service.

throw new UnsupportedOperationException("Not yet implemented");

}

public int onStartCommand(Intent intent, int flags, int startId)

{

player = MediaPlayer.create(this, Settings.System.DEFAULT\_RINGTONE\_URI);

player.setLooping(true);

player.start();

return START\_STICKY;

}

@Override

public void onDestroy() {

super.onDestroy();

//stopping the player when service is destroyed player.stop();

player.stop();

}

}

manifest:

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.musicplayer">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Musicplayer">

<service

android:name=".MediaService"

android:enabled="true"

android:exported="true"></service>

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**15. google map**

Java code

package com.example.goog123;

import androidx.fragment.app.FragmentActivity;

import android.os.Bundle;

import com.google.android.gms.maps.CameraUpdateFactory;

import com.google.android.gms.maps.GoogleMap;

import com.google.android.gms.maps.OnMapReadyCallback;

import com.google.android.gms.maps.SupportMapFragment;

import com.google.android.gms.maps.model.LatLng;

import com.google.android.gms.maps.model.MarkerOptions;

import com.example.goog123.databinding.ActivityMapsBinding;

public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {

private GoogleMap mMap;

private ActivityMapsBinding binding;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

binding = ActivityMapsBinding.inflate(getLayoutInflater());

setContentView(binding.getRoot());

// Obtain the SupportMapFragment and get notified when the map is ready to be used.

SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()

.findFragmentById(R.id.map);

mapFragment.getMapAsync(this);

}

/\*\*

\* Manipulates the map once available.

\* This callback is triggered when the map is ready to be used.

\* This is where we can add markers or lines, add listeners or move the camera. In this case,

\* we just add a marker near Sydney, Australia.

\* If Google Play services is not installed on the device, the user will be prompted to install

\* it inside the SupportMapFragment. This method will only be triggered once the user has

\* installed Google Play services and returned to the app.

\*/

@Override

public void onMapReady(GoogleMap googleMap) {

mMap = googleMap;

// Add a marker in Sydney and move the camera

LatLng nhce = new LatLng(-34, 151);

mMap.addMarker(new MarkerOptions().position(nhce).title("Marker in nhce"));

mMap.moveCamera(CameraUpdateFactory.newLatLng(nhce));

}

}

google\_map\_api.xml

<resources>

<!--

TODO: Before you run your application, you need a Google Maps API key.

To get one, follow this link, follow the directions and press "Create" at the end:

https://console.developers.google.com/flows/enableapi?apiid=maps\_android\_backend&keyType=CLIENT\_SIDE\_ANDROID&r=88:AE:DB:07:78:5B:46:C3:7F:43:CA:FF:07:BB:34:CD:FB:CE:20:6E%3Bcom.example.goog123

You can also add your credentials to an existing key, using these values:

Package name:

com.example.goog123

SHA-1 certificate fingerprint:

88:AE:DB:07:78:5B:46:C3:7F:43:CA:FF:07:BB:34:CD:FB:CE:20:6E

Alternatively, follow the directions here:

https://developers.google.com/maps/documentation/android/start#get-key

Once you have your key (it starts with "AIza"), replace the "google\_maps\_key"

string in this file.

-->

<string name="google\_maps\_key" templateMergeStrategy="preserve" translatable="false">AIzaSyDkvWtarOd7eMX-bWSQAj0GuoS1Y2\_mcpc</string>

</resources>