1. Simple Calculator
2. <?*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*="#9DDCD6"  
    *tools:context*=".MainActivity">  
     
    <TextView  
    *android:id*="@+id/textView2"  
    *android:layout\_width*="320dp"  
    *android:layout\_height*="61dp"  
    *android:background*="@color/purple\_700"  
    *android:text*=" Calculator"  
    *android:textAlignment*="center"  
    *android:textColor*="#CDEACA"  
    *android:textSize*="48sp"  
    *android:textStyle*="bold|italic"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.434"  
    *app:layout\_constraintLeft\_toLeftOf*="parent"  
    *app:layout\_constraintRight\_toRightOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.071" />  
     
    <Button  
    *android:id*="@+id/ADD"  
    *android:layout\_width*="114dp"  
    *android:layout\_height*="61dp"  
    *android:text*="ADD"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.131"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.574" />  
     
    <Button  
    *android:id*="@+id/SUB"  
    *android:layout\_width*="96dp"  
    *android:layout\_height*="69dp"  
    *android:text*="SUB"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.888"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.581"  
    *tools:ignore*="MissingConstraints" />  
     
    <Button  
    *android:id*="@+id/MUL"  
    *android:layout\_width*="104dp"  
    *android:layout\_height*="60dp"  
    *android:text*="MUL"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.159"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.758"  
    *tools:ignore*="MissingConstraints" />  
     
    <Button  
    *android:id*="@+id/DIV"  
    *android:layout\_width*="102dp"  
    *android:layout\_height*="60dp"  
    *android:text*="DIV"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.886"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.758"  
    *tools:ignore*="MissingConstraints" />  
     
    <EditText  
    *android:id*="@+id/t1"  
    *android:layout\_width*="wrap\_content"  
    *android:layout\_height*="wrap\_content"  
    *android:backgroundTint*="#07F411"  
    *android:ems*="10"  
    *android:hint*="Enter T1 :"  
    *android:inputType*="textPersonName"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.21"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.24"  
    *tools:ignore*="MissingConstraints" />  
     
    <EditText  
    *android:id*="@+id/t2"  
    *android:layout\_width*="wrap\_content"  
    *android:layout\_height*="wrap\_content"  
    *android:backgroundTint*="#04F60E"  
    *android:ems*="10"  
    *android:hint*="Enter T2 :"  
    *android:inputType*="textPersonName"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.21"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.367"  
    *tools:ignore*="MissingConstraints" />  
     
    <EditText  
    *android:id*="@+id/res"  
    *android:layout\_width*="337dp"  
    *android:layout\_height*="78dp"  
    *android:ems*="10"  
    *android:hint*="Result"  
    *android:inputType*="textPersonName"  
    *android:textSize*="24sp"  
    *app:layout\_constraintBottom\_toBottomOf*="parent"  
    *app:layout\_constraintEnd\_toEndOf*="parent"  
    *app:layout\_constraintHorizontal\_bias*="0.586"  
    *app:layout\_constraintStart\_toStartOf*="parent"  
    *app:layout\_constraintTop\_toTopOf*="parent"  
    *app:layout\_constraintVertical\_bias*="0.912"  
    *tools:ignore*="MissingConstraints" />  
     
   </androidx.constraintlayout.widget.ConstraintLayout>

Java code

*package* com.example.simplecalci;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
*import* android.widget.TextView;  
  
*public class* MainActivity *extends* AppCompatActivity {  
 EditText t1,t2,t3;  
  
 Button ADD,SUB,MUL,DIV;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 t1 = (EditText) findViewById(R.id.*t1*);  
 t2 = (EditText) findViewById(R.id.*t2*);  
 t3 = (EditText) findViewById(R.id.*res*);  
 ADD = (Button) findViewById(R.id.*ADD*);  
 SUB = (Button) findViewById(R.id.*SUB*);  
 MUL = (Button) findViewById(R.id.*MUL*);  
 DIV = (Button) findViewById(R.id.*DIV*);  
  
 ADD.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 String v1 = t1.getText().toString();  
 String v2 = t2.getText().toString();  
 *int* a = Integer.*parseInt*(v1);  
 *int* b = Integer.*parseInt*(v2);  
 *int* c = a + b;  
 t3.setText("Result=" + c);  
 }  
 });  
  
 SUB.setOnClickListener(*new* View.OnClickListener() {  
 *public void* onClick(View v) {  
 String v1 = t1.getText().toString();  
 String v2 = t2.getText().toString();  
 *int* a = Integer.*parseInt*(v1);  
 *int* b = Integer.*parseInt*(v2);  
 *int* c = a - b;  
 t3.setText("Result=" + c);  
 }  
 });  
  
 MUL.setOnClickListener(*new* View.OnClickListener() {  
 *public void* onClick(View v) {  
 String v1 = t1.getText().toString();  
 String v2 = t2.getText().toString();  
 *int* a = Integer.*parseInt*(v1);  
 *int* b = Integer.*parseInt*(v2);  
 *int* c = a \* b;  
 t3.setText("Result=" + c);  
 }  
 });  
  
 DIV.setOnClickListener(*new* View.OnClickListener() {  
 *public void* onClick(View v) {  
 String v1 = t1.getText().toString();  
 String v2 = t2.getText().toString();  
 *int* a = Integer.*parseInt*(v1);  
 *int* b = Integer.*parseInt*(v2);  
 *if*(b!=0){  
 *int* c = a / b;  
 t3.setText("Result=" + c);  
 }  
 *else* t3.setText("Result=" + " Infinity");}  
 });  
 }  
}

Buisness app

<?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="468dp"  
 android:layout\_height="176dp"  
 android:rotationX="17"  
 android:rotationY="4"  
 android:text="@string/munch"  
 android:textAlignment="center"  
 android:textColor="#300101"  
 android:textSize="50sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.096" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="435dp"  
 android:layout\_height="181dp"  
 android:contentDescription="@string/todo"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.313"  
 app:srcCompat="@drawable/tango" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="756dp"  
 android:layout\_height="131dp"  
 android:text="Munch is a canteeen in new horizon college of engineering.This is a place where students like to spend their time during lunch break and in their free time by having food."  
 android:textAlignment="center"  
 android:textColor="#78909C"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.462"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.732" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="424dp"  
 android:layout\_height="52dp"  
 android:text="@string/description"  
 android:textAlignment="center"  
 android:textColor="#757575"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.472"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.596" />  
  
 <EditText  
 android:id="@+id/editTextTextEmailAddress"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textEmailAddress"  
 android:minHeight="48dp"  
 android:text="[ranjitha754@gmail.com](mailto:ranjitha754@gmail.com)"  
 android:textAlignment="center"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.107"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.908" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="16dp"  
 android:text="num:961124445"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.194"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

JAVA CODE:

package com.example.lab2\_res;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState)

{ super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main); } }

3 Visiting card

<?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="#090000"  
 tools:context=".MainActivity">  
  
 <androidx.cardview.widget.CardView  
 android:id="@+id/cardView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="250dp"  
 android:layout\_height="59dp"  
 android:background="#F68E87"  
 android:text="CLOTHINA"  
 android:textAlignment="center"  
 android:textColor="#AD1457"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.144"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.043" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="223dp"  
 android:layout\_height="25dp"  
 android:background="#D56161"  
 android:text="geetha sree"  
 android:textAlignment="center"  
 android:textColor="#FAF5F5"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.34"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.344" />  
  
 <TextView  
 android:id="@+id/textView7"  
 android:layout\_width="163dp"  
 android:layout\_height="19dp"  
 android:background="#F1C9D7"  
 android:text="FASHION DESIGNER"  
 android:textAlignment="center"  
 android:textColor="#FF5722"  
 android:textSize="16sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.439"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.4" />  
  
 <TextView  
 android:id="@+id/textView8"  
 android:layout\_width="345dp"  
 android:layout\_height="115dp"  
 android:background="#FBD7D7"  
 android:text="ADDRESS : CLOTHINA , \nFASHION SQUARE 2 ND FLOOR MG NAGAR BANGALORE - 560100 \n EMAIL ID : [sofiyaclothina@gmail.com](mailto:sofiyaclothina@gmail.com)\nwww.clothina@fashionboutique"  
 android:textAlignment="gravity"  
 android:textColor="#F44336"  
 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="0.748" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="130dp"  
 android:layout\_height="99dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.484"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.179"  
 app:srcCompat="@drawable/pic" />  
  
 <ImageView  
 android:id="@+id/imageView2"  
 android:layout\_width="88dp"  
 android:layout\_height="108dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.992"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0"  
 app:srcCompat="@drawable/pic2" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="294dp"  
 android:layout\_height="35dp"  
 android:background="#F3C9D7"  
 android:text="CONTACT NUMBER : 767676537653 \n "  
 android:textColor="#F44336"  
 android:textSize="16sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

1. Unit convertor

<?*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*="#F1F2F3"  
 *android:backgroundTint*="#B9F3E4"  
 *tools:context*=".MainActivity">  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="329dp"  
 *android:layout\_height*="64dp"  
 *android:fontFamily*="cursive"  
 *android:text*="Unit converter"  
 *android:textAlignment*="center"  
 *android:textColor*="#10EAC5"  
 *android:textSize*="48sp"  
 *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*="0.06" />  
  
 <RadioGroup  
 *android:id*="@+id/radioGroup"  
 *android:layout\_width*="224dp"  
 *android:layout\_height*="241dp"  
 *app:layout\_constraintBottom\_toBottomOf*="parent"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintHorizontal\_bias*="0.631"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.365">  
  
 <RadioButton  
 *android:id*="@+id/r1"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="CM to M"  
 *android:textColor*="#EC1085"  
 *android:textSize*="24sp"  
 *android:textStyle*="italic" />  
  
 <RadioButton  
 *android:id*="@+id/r2"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="M to CM"  
 *android:textColor*="#F40B88"  
 *android:textSize*="24sp"  
 *android:textStyle*="italic" />  
  
 <RadioButton  
 *android:id*="@+id/r3"  
 *android:layout\_width*="184dp"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Feet to Inch"  
 *android:textColor*="#F8188F"  
 *android:textSize*="24sp"  
 *android:textStyle*="italic" />  
  
 <RadioButton  
 *android:id*="@+id/r4"  
 *android:layout\_width*="match\_parent"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="Inch to Feet"  
 *android:textColor*="#EC1788"  
 *android:textSize*="24sp"  
 *android:textStyle*="italic" />  
 </RadioGroup>  
  
 <TextView  
 *android:id*="@+id/res"  
 *android:layout\_width*="168dp"  
 *android:layout\_height*="42dp"  
 *android:textColor*="#8441D6"  
 *android:textSize*="20sp"  
 *android:textStyle*="bold"  
 *app:layout\_constraintBottom\_toTopOf*="@+id/radioGroup"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintHorizontal\_bias*="0.941"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.495" />  
  
 <TextView  
 *android:id*="@+id/ans"  
 *android:layout\_width*="225dp"  
 *android:layout\_height*="57dp"  
 *android:textAlignment*="center"  
 *android:textColor*="#7E2CE1"  
 *android:textSize*="20sp"  
 *android:textStyle*="bold"  
 *app:layout\_constraintBottom\_toBottomOf*="parent"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/radioGroup" />  
  
 <Button  
 *android:id*="@+id/button1"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="CONVERT"  
 *android:textAlignment*="center"  
 *app:layout\_constraintBottom\_toTopOf*="@+id/ans"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintHorizontal\_bias*="0.498"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/radioGroup"  
 *app:layout\_constraintVertical\_bias*="0.421" />  
  
 <EditText  
 *android:id*="@+id/input1"  
 *android:layout\_width*="153dp"  
 *android:layout\_height*="48dp"  
 *android:ems*="10"  
 *android:hint*="Enter unit"  
 *android:inputType*="number"  
 *android:textColor*="#F33A3A"  
 *android:textSize*="20sp"  
 *app:layout\_constraintBottom\_toTopOf*="@+id/radioGroup"  
 *app:layout\_constraintEnd\_toStartOf*="@+id/res"  
 *app:layout\_constraintHorizontal\_bias*="1.0"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.462" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

*package* com.example.unit\_conversion;  
  
*import* androidx.appcompat.app.AppCompatActivity;  
  
*import* android.os.Bundle;  
*import* android.provider.MediaStore;  
*import* android.view.View;  
*import* android.widget.Button;  
*import* android.widget.EditText;  
*import* android.widget.RadioButton;  
*import* android.widget.TextView;  
*import* android.widget.Toast;  
  
*import* org.w3c.dom.*Text*;  
  
*public class* MainActivity *extends* AppCompatActivity {  
 EditText t1;  
 TextView a1,a2;  
 RadioButton r1,r2,r3,r4;  
 Button b1;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 t1=(EditText) findViewById(R.id.*input1*);  
 a1=(TextView) findViewById(R.id.*res*);  
 a2=(TextView) findViewById(R.id.*ans*);  
 r1=(RadioButton) findViewById(R.id.*r1*);  
 r2=(RadioButton) findViewById(R.id.*r2*);  
 r3=(RadioButton) findViewById(R.id.*r3*);  
 r4=(RadioButton) findViewById(R.id.*r4*);  
 b1=(Button) findViewById(R.id.*button1*);  
  
 b1.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 String a=t1.getText().toString();  
 *float* m=Float.*parseFloat*(a);  
 *float* ans1;  
 *if*(r1.isChecked())  
 {  
 ans1=m/100;  
 a1.setText("Result="+ans1);  
 a2.setText(m+"cm="+ans1+"m");  
 }  
 *else if*(r2.isChecked())  
 {  
 ans1=m\*100;  
 a1.setText("Result="+ans1);  
 a2.setText(m+"m="+ans1+"cm");  
 }  
 *else if*(r3.isChecked())  
 {  
 ans1=m\*12;  
 a1.setText("Result="+ans1);  
 a2.setText(m+"feet="+ans1+"inch");  
 }  
 *else if*(r4.isChecked())  
 {  
 ans1=m/12;  
 a1.setText("Result="+ans1);  
 a2.setText(m+"inch="+ans1+"feet");  
 }  
 *else* Toast.*makeText*(MainActivity.*this*, "Choose any one radio button",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
  
 }  
}

1. Currency converter

<?*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*="@drawable/b4"  
 *tools:context*=".MainActivity">  
  
 <TextView  
 *android:id*="@+id/textView"  
 *android:layout\_width*="380dp"  
 *android:layout\_height*="65dp"  
 *android:fontFamily*="cursive"  
 *android:text*="Currency converter"  
 *android:textAlignment*="center"  
 *android:textColor*="#8128EF"  
 *android:textSize*="48sp"  
 *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*="0.06" />  
  
 <TextView  
 *android:id*="@+id/ans"  
 *android:layout\_width*="244dp"  
 *android:layout\_height*="53dp"  
 *android:layout\_marginBottom*="88dp"  
 *android:textAlignment*="center"  
 *android:textColor*="#E1288A"  
 *android:textSize*="24sp"  
 *android:textStyle*="bold"  
 *app:layout\_constraintBottom\_toBottomOf*="parent"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintHorizontal\_bias*="0.532"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.981" />  
  
 <Button  
 *android:id*="@+id/button1"  
 *android:layout\_width*="wrap\_content"  
 *android:layout\_height*="wrap\_content"  
 *android:text*="CONVERT"  
 *android:textAlignment*="center"  
 *app:layout\_constraintBottom\_toTopOf*="@+id/ans"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintHorizontal\_bias*="0.498"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.928" />  
  
 <EditText  
 *android:id*="@+id/input1"  
 *android:layout\_width*="153dp"  
 *android:layout\_height*="48dp"  
 *android:ems*="10"  
 *android:hint*="Enter unit"  
 *android:inputType*="number"  
 *android:textColor*="#F33A3A"  
 *android:textSize*="24sp"  
 *app:layout\_constraintBottom\_toBottomOf*="parent"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toBottomOf*="@+id/textView"  
 *app:layout\_constraintVertical\_bias*="0.122" />  
  
 <Spinner  
 *android:id*="@+id/spinner1"  
 *android:layout\_width*="234dp"  
 *android:layout\_height*="52dp"  
 *android:background*="#CF9F7A"  
 *android:entries*="@array/choice"  
 *app:layout\_constraintBottom\_toBottomOf*="parent"  
 *app:layout\_constraintEnd\_toEndOf*="parent"  
 *app:layout\_constraintStart\_toStartOf*="parent"  
 *app:layout\_constraintTop\_toTopOf*="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

*package* com.example.currency;  
  
*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 {  
 EditText t1;  
 TextView v1,v2;  
 Button b1;  
 Spinner s1;  
 @Override  
 *protected void* onCreate(Bundle savedInstanceState) {  
 *super*.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 t1=(EditText) findViewById(R.id.*input1*);  
  
 v2=(TextView)findViewById(R.id.*ans*);  
 b1=(Button) findViewById(R.id.*button1*);  
 s1=(Spinner) findViewById(R.id.*spinner1*);  
  
 b1.setOnClickListener(*new* View.OnClickListener() {  
 @Override  
 *public void* onClick(View v) {  
 String a=t1.getText().toString();  
 *float* rup=Float.*parseFloat*(a);  
 *int* x=s1.getSelectedItemPosition();  
 *double* num1=0;  
 *if*(x==1)  
 {  
 num1=rup/74.77;  
  
 v2.setText(rup+"rupees="+num1+"dollars");  
 }  
 *else if*(x==2)  
 {  
 num1=rup\*74.77;  
  
 v2.setText(rup+"dollars="+num1+"rupees");  
 }  
 *else if*(x==3)  
 {  
 num1=rup/0.66;  
  
 v2.setText(rup+"rupees="+num1+"yen");  
 }  
 *else if*(x==4)  
 {  
 num1=rup\*0.66;  
  
 v2.setText(rup+"yen="+num1+"rupees");  
 }  
 *else if*(x==5)  
 {  
 num1=rup/0.064;  
  
 v2.setText(rup+"rupees="+num1+"Korean Won");  
 }  
 *else if*(x==6)  
 {  
 num1=rup\*0.064;  
 v2.setText(rup+"Korean Won="+num1+"rupees");  
 }  
 *else* Toast.*makeText*(MainActivity.*this*,"Select from spinner",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
}

<resources>  
 <string *name*="app\_name">Currency converter</string>  
 <string-array *name*="choice">  
 <item>Select</item>  
 <item>Rupee to dollar</item>  
 <item>Dollar to Rupee</item>  
 <item>Rupee to Yen</item>  
 <item>Yen to Rupee</item>  
 <item>Rupee to Korean Won</item>  
 <item>Korean Won to Rupee</item>  
 </string-array>  
</resources>

1. 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"  
 android:background="@drawable/img"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="298dp"  
 android:layout\_height="84dp"  
 android:text="LOGIN PAGE"  
 android:textAlignment="center"  
 android:textColor="#077DC5"  
 android:textSize="48sp"  
 android:textStyle="bold"  
 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="0.073" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="263dp"  
 android:layout\_height="65dp"  
 android:ems="10"  
 android:hint="USER ID"  
 android:inputType="textPersonName"  
 android:textAlignment="center"  
 android:textAllCaps="false"  
 android:textColor="#035023"  
 android:textColorHint="#07130C"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.459"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="219dp"  
 android:layout\_height="68dp"  
  
 android:background="@drawable/img"  
 android:backgroundTint="#E66262"  
 android:backgroundTintMode="add"  
 android:text="LOGIN IN"  
 android:textColor="#EDC5A7"  
 android:textColorLink="#C38686"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.806" />  
  
 <EditText  
 android:id="@+id/editTextTextPassword"  
 android:layout\_width="257dp"  
 android:layout\_height="61dp"  
 android:ems="10"  
 android:hint="PASSWORD"  
 android:inputType="textPassword"  
 android:textAlignment="center"  
 android:textAllCaps="true"  
 android:textColorHint="#030905"  
 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="0.641" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="149dp"  
 android:layout\_height="139dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.261"  
 app:srcCompat="@drawable/img\_1" />  
</androidx.constraintlayout.widget.ConstraintLayout>

main activity.java

package com.example.loginpage;  
  
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;  
  
import com.example.loginpage.R;  
import com.example.loginpage.Welcome;  
  
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("Priyadharshini") && pwd.getText().toString().equals("1NH18CS144"))  
 {  
  
 Toast.*makeText*(getApplicationContext(), "LOGIN SUCCESSFULL", Toast.*LENGTH\_SHORT*).show();  
Intent i=new Intent(getApplicationContext(), Welcome.class);  
 i.putExtra("USERNAME",uid.getText().toString());  
 startActivity(i);  
 }  
 else  
 Toast.*makeText*(getApplicationContext(), "THE USER ID OR PASSWORD IS INCORRECT", Toast.*LENGTH\_SHORT*).show();  
  
 }  
 });  
}  
}

activity\_welcome.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="@drawable/img"  
 tools:context=".Welcome">  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="395dp"  
 android:layout\_height="265dp"  
 android:textColor="#DD2C00"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.542"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.859" />  
  
 <ImageView  
 android:id="@+id/imageView2"  
 android:layout\_width="392dp"  
 android:layout\_height="140dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.653"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.112"  
 app:srcCompat="@drawable/img\_2" />  
</androidx.constraintlayout.widget.ConstraintLayout>

welcome.java

package com.example.loginpage;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
import com.example.loginpage.R;  
  
public class Welcome extends AppCompatActivity {  
 TextView tv;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_welcome*);  
 Bundle b1 = getIntent().getExtras();  
 String s1 = b1.getString("USERNAME");  
 TextView tv;  
 tv=(TextView) findViewById(R.id.*textView2*);  
 tv.setText("LOGIN SUCCESSFULL WELCOME :"+s1);  
 }  
}

1. Gallery and Dial prog

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="#009688"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="143dp"  
 android:layout\_height="63dp"  
 android:text="enter mobileno:"  
 android:textColor="#1C5263 "  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.101"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.137" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="155dp"  
 android:layout\_height="56dp"  
 android:backgroundTint="#1C5263 "  
 android:text="Gallery "  
 android:textSize="16sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.507"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.454" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="153dp"  
 android:layout\_height="51dp"  
 android:backgroundTint="#1C5263 "  
 android:text="DIAL"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.503"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.623" />  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.845"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.142" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Java code

package com.example.gallery\_ak;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.ComponentName;  
import android.content.Intent;  
import android.net.Uri;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.provider.CallLog;  
import android.provider.MediaStore;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
 Button button,button2;  
 EditText et1;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 button = (Button)findViewById(R.id.*button*);  
 button2 = (Button)findViewById(R.id.*button2*);  
 et1 = (EditText)findViewById(R.id.*et1*);  
  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent();  
 intent.setAction(android.content.Intent.*ACTION\_VIEW*);  
 intent.setData(Uri.*parse*("content://media/external/images/media"));  
 startActivity(intent);  
 }  
  
 });  
 button2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent();  
 intent.setAction(Intent.*ACTION\_DIAL*);  
 intent.setData(Uri.*parse*("tel:"+et1.getText()));  
 startActivity(intent);  
  
 }  
 });  
 }  
}

1. toursist

Main activity 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="?android:attr/textColorLinkInverse" 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="1NH17CS123" 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>

* Home 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=".Home">

<TextView

android:id="@+id/textView3" android:layout\_width="326dp" android:layout\_height="73dp" android:text="Natural Tourist Spots in India" android:textAlignment="center" android:textColor="@color/colorPrimaryDark" 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="259dp" android:layout\_height="140dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.565" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.236" app:srcCompat="@drawable/andaman" />

<ImageView

android:id="@+id/img\_jog" android:layout\_width="257dp" android:layout\_height="158dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.558" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.532" app:srcCompat="@drawable/jog" />

<ImageView

android:id="@+id/img\_dal" android:layout\_width="261dp" android:layout\_height="162dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.573" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.878" app:srcCompat="@drawable/dal" />

</androidx.constraintlayout.widget.ConstraintLayout>

## JAVA CODE:

* Main Java

**package** com.example.touristspots;

**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(), Home.**class**); startActivity(i);

}

});

}

}

* Home java

**package** com.example.touristspots;

**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** Home **extends** AppCompatActivity { ImageView **img\_andaman**,**img\_jog**,**img\_dal**; @Override

**protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_home***);

**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 islands"**,Toast.***LENGTH\_SHORT***).show();

String url="https://en.wikipedia.org/wiki/Andaman\_and\_Nicobar\_Islands";

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://en.wikipedia.org/wiki/Jog\_Falls"**; 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://en.wikipedia.org/wiki/Dal\_Lake"**;

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

}

});

}

}

## MANIFEST FILE:

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

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

package="com.example.touristspots">

## <uses-permission android:name="android.permission.INTERNET"/>

<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/AppTheme">

<activity android:name=".Home"></activity>

<activity android:name=".MainActivity">

<intent-filter>

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

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

</intent-filter>

</**activity**>

</**application**>

</**manifest**>

1. PLAY MUSIC IN BG

**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:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="@android:color/holo\_red\_light" tools:context=".MainActivity">

<TextView

android:layout\_width="324dp" android:layout\_height="50dp" android:text="Music Player" android:textAlignment="center" android:textColor="@color/colorPrimaryDark" android:textSize="30sp" android:textStyle="bold" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintHorizontal\_bias="0.462" app:layout\_constraintLeft\_toLeftOf="parent" app:layout\_constraintRight\_toRightOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.054" />

<TextView

android:id="@+id/textView" android:layout\_width="168dp" android:layout\_height="37dp" android:text="1NH17CS123" android:textAlignment="center" android:textSize="24sp"

app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintHorizontal\_bias="0.806" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.899" />

<Button

android:id="@+id/bt\_start" android:layout\_width="233dp" android:layout\_height="64dp" android:background="@android:color/holo\_green\_dark" android:text="START"

android:textSize="24sp" android:textStyle="bold" 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" />

<Button

android:id="@+id/bt\_stop" android:layout\_width="223dp" android:layout\_height="65dp" android:background="@android:color/holo\_red\_dark" android:text="STOP" android:textAlignment="center" android:textSize="24sp"

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="0.625" />

<ImageView

android:id="@+id/imageView" android:layout\_width="195dp" android:layout\_height="190dp" app:layout\_constraintBottom\_toBottomOf="parent" app:layout\_constraintEnd\_toEndOf="parent" app:layout\_constraintStart\_toStartOf="parent" app:layout\_constraintTop\_toTopOf="parent" app:layout\_constraintVertical\_bias="0.219" app:srcCompat="@drawable/i1" />

</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA CODE:**

# Main Activity Code

**package** com.example.bgmplayer;

**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 **implements**

View.OnClickListener {

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

**bt\_start**.setOnClickListener((View.OnClickListener) **this**); **bt\_stop**.setOnClickListener((View.OnClickListener) **this**);

}

@Override

**public void** onClick(View view) {

**if** (view == **bt\_start**) {

*//starting service*

startService(**new** Intent(**this**, MediaService.**class**));

}

**else if** (view == **bt\_stop**) {

*// stopping service*

stopService(**new** Intent(**this**, MediaService.**class**));

}

}

}

# Media Service.java

**package** com.example.bgmplayer;

**import** android.app.Service; **import** android.content.Intent; **import** android.media.MediaPlayer; **import** android.os.IBinder;

**import** android.provider.Settings;

**import** androidx.annotation.Nullable;

**public class** MediaService **extends** Service {

**private** MediaPlayer **player**; @Nullable

@Override

**public** IBinder onBind(Intent intent) {

return null;

}

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

{

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

**player** = MediaPlayer.*create*(**this**,R.raw.***song***);

**player**.setLooping(**true**);

*//staring the player*

**player**.start();

*stopped*

*//start sticky means service will be explicity started and*

**return *START\_STICKY***;

}

@Override

**public void** onDestroy() {

**super**.onDestroy();

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

**player**.stop();

1. HOSPITAL DB
2. <?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="389dp"  
    android:layout\_height="113dp"  
    android:fontFamily="@font/aclonica"  
    android:text="Hospital Database"  
    android:textAlignment="center"  
    android:textColor="#3DBFCF"  
    android:textSize="48sp"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.428"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.023" />  
     
    <TextView  
    android:id="@+id/textView2"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Hospital ID"  
    android:textColor="#0C0C0C"  
    android:textSize="25sp"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.046"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.218" />  
     
    <TextView  
    android:id="@+id/textView3"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="H Name"  
    android:textColor="#131313"  
    android:textSize="25sp"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.054"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.338" />  
     
    <TextView  
    android:id="@+id/textView4"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Location"  
    android:textColor="#100F0F"  
    android:textSize="25sp"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.054"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.446" />  
     
    <EditText  
    android:id="@+id/et1"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:ems="10"  
    android:inputType="textPersonName"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.92"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.218" />  
     
    <EditText  
    android:id="@+id/et2"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:ems="10"  
    android:inputType="textPersonName"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.925"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.338" />  
     
    <EditText  
    android:id="@+id/et3"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:ems="10"  
    android:inputType="textPersonName"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.92"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.446" />  
     
    <Button  
    android:id="@+id/button"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Submit"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.049"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.651" />  
     
    <Button  
    android:id="@+id/button2"  
    android:layout\_width="wrap\_content"  
    android:layout\_height="wrap\_content"  
    android:text="Show list"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.945"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.651" />  
     
    <TextView  
    android:id="@+id/t5"  
    android:layout\_width="365dp"  
    android:layout\_height="157dp"  
    android:textSize="24sp"  
    app:layout\_constraintBottom\_toBottomOf="parent"  
    app:layout\_constraintEnd\_toEndOf="parent"  
    app:layout\_constraintHorizontal\_bias="0.492"  
    app:layout\_constraintStart\_toStartOf="parent"  
    app:layout\_constraintTop\_toTopOf="parent"  
    app:layout\_constraintVertical\_bias="0.923" />  
   </androidx.constraintlayout.widget.ConstraintLayout>

Java code

package com.example.hospi;  
  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.View;  
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.io.inputStreamReader;  
  
  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
public class MainActivity extends AppCompatActivity {  
 Button btn1,btn2;  
 EditText et1,et2,et3;  
 TextView t5;  
 String s1,s2,s3;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 btn1=(Button) findViewById(R.id.*button*);  
 btn2=(Button) findViewById(R.id.*button2*);  
 t5=(TextView) findViewById(R.id.*t5*);  
 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");  
 }  
  
 t5.setText(sb.toString());  
 }  
 catch (FileNotFoundException e)  
 {  
 e.printStackTrace();  
 }  
 catch (IOException e)  
 {  
 e.printStackTrace();  
 }  
 }  
}

11. Expense Manager

<?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="#009688"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="EXPENSE MANAGER"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.451"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.103" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Category"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.119"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.22" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="75dp"  
 android:layout\_height="39dp"  
 android:text="Price"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.125"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.342" />  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.691"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.225" />  
  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.691"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.345" />  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SAVE"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.185"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.464" />  
  
 <Button  
 android:id="@+id/b2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="LOAD"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.808"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.464" />  
  
 <TextView  
 android:id="@+id/t1"  
 android:layout\_width="386dp"  
 android:layout\_height="236dp"  
 android:text="TextView"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.64"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.892" />

JAVA CODE

package com.example.expensemanager;  
  
import static java.lang.String.*valueOf*;  
  
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.BufferedInputStream;  
import java.io.BufferedOutputStream;  
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 b1,b2;  
 EditText et1,et2;  
 TextView t1;  
 String s1,s2;  
  
 @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*);  
 et1 = (EditText) findViewById(R.id.*et1*);  
 et2 = (EditText) findViewById(R.id.*et2*);  
 t1 = (TextView) findViewById(R.id.*t1*);  
  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 save(v);  
  
  
 }  
 });  
 b2.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");  
 }  
 t1.setText(sb.toString());  
  
 } catch (FileNotFoundException e) {  
 e.printStackTrace();  
 } catch (IOException e) {  
 e.printStackTrace();  
 }

1. Health moniter

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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#998BD3F3"  
 tools:context=".MainActivity">  
 <TextView  
 android:layout\_width="180dp"  
 android:layout\_height="26dp"  
 android:text="1NH17CS123"  
 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="HEALTH MONITOR"  
 android:textAlignment="center"  
 android:textColor="@color/purple\_700"  
 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="124dp"  
 android:layout\_height="22dp"  
 android:text="Name"  
 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="99dp"  
 android:layout\_height="32dp"  
 android:text="Age"  
 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="0.277" />  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="99dp"  
 android:layout\_height="30dp"  
 android:text="HB level"  
 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" />  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="114dp"  
 android:layout\_height="33dp"  
 android:text="Blood Sugar"  
 android:textAlignment="center"  
 android:textSize="18sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.117"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.425" />  
 <EditText  
 android:id="@+id/et\_name"  
 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\_age"  
 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\_hb"  
 android:layout\_width="207dp"  
 android:layout\_height="54dp"  
 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" />  
 <EditText  
 android:id="@+id/et\_sugar"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.855"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.432" />  
 <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>

**JAVA**

package com.example.hel;  
  
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\_name;  
 EditText et\_age;  
 EditText et\_hb;  
 EditText et\_sugar;  
 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\_name = (EditText)findViewById(R.id.*et\_name*);  
 et\_age = (EditText)findViewById(R.id.*et\_age*);  
 et\_hb = (EditText)findViewById(R.id.*et\_hb*);  
 et\_sugar = (EditText)findViewById(R.id.*et\_sugar*);  
 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\_name.getText().toString(),  
 Integer.*parseInt*(et\_age.getText().toString()),  
 Integer.*parseInt*(et\_hb.getText().toString()),  
 Integer.*parseInt*(et\_sugar.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 (" Hemoglobin: "+c.getString(3));  
 buf.append (" Sugar: "+c.getString(4));  
 buf.append("\n");  
 }  
 tv\_op.setText(buf);  
 }  
 public void cleartext (View view) {  
 et\_name.setText("");  
 et\_age.setText("");  
 et\_hb.setText("");  
 et\_sugar.setText("");  
 }  
}

**DATA BASE:**

package com.example.hel;  
 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, "Health.db", null, 1);  
 }  
 public void onCreate (SQLiteDatabase sqLiteDatabase) {  
 sqLiteDatabase.execSQL("CREATE TABLE LAB ( PATID integer PRIMARY KEY AUTOINCREMENT, PANAME TEXT, AGE INTEGER, HM INTEGER, SUGAR INTEGE);");  
 }  
 @Override  
 public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1)  
 {  
 sqLiteDatabase.execSQL("DROP TABLE IF EXISTS LAB ");  
 onCreate(sqLiteDatabase);  
 }  
 public boolean insert (String name, int age, int hb, int sug) {  
 SQLiteDatabase db = this.getWritableDatabase();  
 ContentValues cv = new ContentValues();  
 cv.put("PANAME", name);  
 cv.put("AGE", age);  
 cv.put("HM", hb);  
 cv.put("SUGAR", sug);  
 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;  
 }  
}

14 . DISPLAY OD CLG IN MAP

**XML CODE:**

# Google\_maps\_api\_xml Code

<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\_backe nd&keyType=CLIENT\_SIDE\_ANDROID&r=38:EB:EF:79:F0:DD:EB:0B:DE:92:74:C4:2A:84:5A:*

*62:C4:98:73:75%3Bcom.example.collegemap*

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

*com.example.collegemap*

*SHA-1 certificate fingerprint: 38:EB:EF:79:F0:DD:EB:0B:DE:92:74:C4:2A:84:5A:62:C4:98:73:75*

*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"**>AIzaSyDXl2Oxv6Il3ojORV-NuvgzErgByyx\_ahQ</**string**>

</**resources**>

## JAVA CODE:

**package** com.example.collegemap;

**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;

**public class** MapsActivity **extends** FragmentActivity **implements**

OnMapReadyCallback {

**private** GoogleMap **mMap**; @Override

**protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_maps***);

*// 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 sydney = **new** LatLng(12.93, 77.69);

**mMap**.addMarker(**new** MarkerOptions().position(sydney).title(**"New Horizon College of Engineering"**));

**mMap**.moveCamera(CameraUpdateFactory.*newLatLng*(sydney));

**MANIFEST**

15. SMS

**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:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="#BCB591"  
 android:backgroundTint="#9FC5C8"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="168dp"  
 android:layout\_height="78dp"  
 android:text="SMS"  
 android:textSize="48sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.699"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.067" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="90dp"  
 android:layout\_height="36dp"  
 android:fontFamily="sans-serif-light"  
 android:text='MOBILE NO:"'  
 android:textColor="#0E0E0E"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.072"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.226" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="72dp"  
 android:layout\_height="37dp"  
 android:text="MESSAGE:"  
 android:textAppearance="@style/TextAppearance.AppCompat.Body1"  
 android:textColor="#121111"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.11"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.404" />  
  
 <EditText  
 android:id="@+id/et1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.686"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.221" />  
  
 <EditText  
 android:id="@+id/et2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.681"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.419" />  
  
 <Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Send SMS"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.536"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.636" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA CODE:**

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.Context;  
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 et1,et2;  
 Button b1;  
 PendingIntent sentPI,deliveredPI;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 et1 = (EditText) findViewById(R.id.*et1*);  
 et2 = (EditText) findViewById(R.id.*et2*);  
 b1 = (Button) findViewById(R.id.*b1*);  
 b1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String message = et2.getText().toString();  
 String telnr = et1.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", 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();  
 }  
  
 }  
 });  
 }  
}

**MANIFEST FILE:**

<?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="sms"  
 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>