# CODE:-

package com.example.vtucompanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences; import android.os.Bundle;

import android.view.View; import android.widget.Button; import android.widget.CheckBox; import android.widget.TextView; import android.widget.Toast;

import java.util.Map;

public class MainActivity extends AppCompatActivity { private TextView VCRegister;

private TextView VCUser; private TextView VCPass; private Button VClogin; private TextView VCAttempts;

private CheckBox VCremember; public static String forinsider;

// public static String User ="Rohit" ;

// public static String Pass = "12345678"; boolean isValid = false;

int i = 5;

public Credentials A1; SharedPreferences Sp; SharedPreferences.Editor Spe;

// public static Credentials A = new Credentials("Rohit","password");

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main); getSupportActionBar().hide();

VCUser = findViewById(R.id.editTextTextPersonName); VCPass = findViewById(R.id.editTextTextPassword2); VClogin = findViewById(R.id.button);

VCRegister = findViewById(R.id.textView10); VCAttempts = findViewById(R.id.textView14); VCremember =findViewById(R.id.checkBox);

A1 = new Credentials();

Sp = getApplicationContext().getSharedPreferences("DataBase",MODE\_PRIVATE); //it creates a file DataBase and Store a copy of all the value of that file by getSharedpreferences.

Spe = Sp.edit();

if(Sp != null){

Map<String,?> prefs = Sp.getAll(); if(prefs.size()!=0){

A1.loadCred(prefs);

}

String SavedUser = Sp.getString("LastUsername",""); String SavedPass = Sp.getString("LastUserPass","");

if(Sp.getBoolean("rememberMe",false)){ VCUser.setText(SavedUser); VCPass.setText(SavedPass); VCremember.setChecked(true);

}

}

VCremember.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { Spe.putBoolean("rememberMe",VCremember.isChecked()); Spe.apply();

}

});

VCRegister.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

startActivity(new Intent(MainActivity.this, Registration.class));

}

});

VClogin.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

String inputUser = VCUser.getText().toString(); String inputPass = VCPass.getText().toString();

isValid = Verify(inputUser,inputPass);

if (inputUser.isEmpty() || inputPass.isEmpty()) { Toast.makeText(MainActivity.this, "Completely fill all details.",

Toast.LENGTH\_SHORT).show();

} else {

if (!isValid) {

i--;

VCAttempts.setText("no. of Attempts Remaining : " + i); if (i == 0) {

VClogin.setEnabled(false);

}

Toast.makeText(MainActivity.this, "Invalid detailss", Toast.LENGTH\_SHORT).show(); Toast.makeText(MainActivity.this, "If new User? then Register below.",

Toast.LENGTH\_SHORT).show();

} else {

forinsider =VCUser.getText().toString();

Toast.makeText(MainActivity.this, "Login Succesfull!", Toast.LENGTH\_SHORT).show(); Spe.putString("LastUsername",inputUser);

Spe.putString("LastUserPass",inputPass); Spe.apply();

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

}

}

}

});

}

public boolean Verify(String a, String b) { return A1.VerifyCred(a,b);

}

}

#### Registration Activity

package com.example.vtucompanion;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences; import android.os.Bundle;

import android.view.View; import android.widget.Button; import android.widget.TextView; import android.widget.Toast;

import java.util.Map;

public class Registration extends AppCompatActivity { private TextView RegUser;

private TextView RegPass; private Button VCRegister; private boolean isChecked = false;

public static Credentials A; SharedPreferences Sp; SharedPreferences.Editor Spe; @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_registration); getSupportActionBar().hide();

RegUser = findViewById(R.id.editTextTextPersonName8); RegPass = findViewById(R.id.editTextTextPassword); VCRegister = findViewById(R.id.button2);

A=new Credentials();

Sp = getApplicationContext().getSharedPreferences("DataBase",MODE\_PRIVATE); Spe = Sp.edit();

A = new Credentials();

if(Sp != null){ //Loading all stuff Map<String,?> prefs = Sp.getAll();

if(prefs.size()!=0) A.loadCred(prefs);

}

VCRegister.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String InputName = RegUser.getText().toString(); String InputPass = RegPass.getText().toString();

isChecked = constraints(InputName,InputPass); if(isChecked){

if(A.checkUsername(InputName)){

Toast.makeText(Registration.this,"Username already exists !",Toast.LENGTH\_SHORT).show();

A.addCred(InputName,InputPass);

}else {

Spe.putString(InputName, InputPass);

Spe.putString("LastUsername",InputName); //TRACING

NEEDED !! NEEDED !!

Spe.putString("LastUserPass",InputPass); //TRACING

Spe.apply();

Toast.makeText(Registration.this, "succesfully Registered", Toast.LENGTH\_SHORT).show();

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

}

}

}

});

}

public boolean constraints(String sN,String sP){ if(sN.isEmpty() || sP.length()<8 ){

Toast.makeText(Registration.this,"INVALID !",Toast.LENGTH\_SHORT).show(); Toast.makeText(Registration.this,"Fill All Details , Password should contain \n atleast 8

CHARECTERS.",Toast.LENGTH\_SHORT).show();

return false;

}

return true;

}

}

#### CGPA Activity

package com.example.vtucompanion;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import android.view.View; import android.widget.Button;

import android.widget.TextView; import android.widget.Toast;

public class cgpaprog extends AppCompatActivity {

private TextView isem1; private TextView isem2; private TextView isem3; private TextView isem4; private TextView isem5; private TextView isem6; private TextView isem7; private TextView isem8; private TextView iresult; private TextView ipercent; private Button isubmit; private Button iclear; private float v1 = 0; private float v2 = 0; private float v3 = 0; private float v4 = 0; private float v5 = 0; private float v6 = 0; private float v7 = 0; private float v8 = 0; private float sum = 0;

private Double percent = Double.NaN;

@Override

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

isem1 = findViewById(R.id.editTextTextPersonName2); isem2 = findViewById(R.id.editTextTextPersonName3); isem3 = findViewById(R.id.editTextTextPersonName5);

isem4 = findViewById(R.id.editTextTextPersonName4); isem5 = findViewById(R.id.editTextTextPersonName6); isem6 = findViewById(R.id.editTextTextPersonName7); isem7 = findViewById(R.id.editTextTextPersonName9); isem8 = findViewById(R.id.editTextTextPersonName10); iresult = findViewById(R.id.textView25);

ipercent = findViewById(R.id.textView26); isubmit = findViewById(R.id.button11); iclear = findViewById(R.id.button6);

isubmit.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

if (isem1.getText().toString().isEmpty() || isem2.getText().toString().isEmpty() || isem3.getText().toString().isEmpty() || isem4.getText().toString().isEmpty() ||

isem5.getText().toString().isEmpty() || isem6.getText().toString().isEmpty()| isem7.getText().toString().isEmpty() | isem8.getText().toString().isEmpty() ) {

Toast.makeText(cgpaprog.this, "completely fill all credentials.", Toast.LENGTH\_SHORT).show();

} else {

if (isem5.getText().toString().equals("0") && isem6.getText().toString().equals("0") && isem7.getText().toString().equals("0") && isem8.getText().toString().equals("0")) {

v1 = Float.parseFloat(isem1.getText().toString()); v2 = Float.parseFloat(isem2.getText().toString()); v3 = Float.parseFloat(isem3.getText().toString()); v4 = Float.parseFloat(isem4.getText().toString()); sum = sumation(v1,v2,v3,v4);

sum = sum/4;

percent = (Double)(sum - 0.75) \* 10;

}

if (isem6.getText().toString().equals("0") && isem7.getText().toString().equals("0") && isem8.getText().toString().equals("0")) {

v1 = Float.parseFloat(isem1.getText().toString()); v2 = Float.parseFloat(isem2.getText().toString()); v3 = Float.parseFloat(isem3.getText().toString()); v4 = Float.parseFloat(isem4.getText().toString()); v5 = Float.parseFloat(isem5.getText().toString()); sum = sumation(v1,v2,v3,v4,v5);

sum = sum/5;

percent = (Double)(sum -0.75) \* 10;

} else if (isem7.getText().toString().equals("0") && isem8.getText().toString().equals("0")) { v1 = Float.parseFloat(isem1.getText().toString());

v2 = Float.parseFloat(isem2.getText().toString()); v3 = Float.parseFloat(isem3.getText().toString()); v4 = Float.parseFloat(isem4.getText().toString()); v5 = Float.parseFloat(isem5.getText().toString()); v6 = Float.parseFloat(isem6.getText().toString()); sum = sumation(v1,v2,v3,v4,v5,v6);

sum = sum/6;

percent = (Double)(sum -0.75) \* 10;

}else if(isem8.getText().toString().equals("0")) {

v1 = Float.parseFloat(isem1.getText().toString()); v2 = Float.parseFloat(isem2.getText().toString()); v3 = Float.parseFloat(isem3.getText().toString()); v4 = Float.parseFloat(isem4.getText().toString()); v5 = Float.parseFloat(isem5.getText().toString()); v6 = Float.parseFloat(isem6.getText().toString()); v7 = Float.parseFloat(isem7.getText().toString()); sum = sumation(v1,v2,v3,v4,v5,v6,v7);

sum = sum/7;

percent = (Double) (sum -0.75) \* 10;

}else{

v1 = Float.parseFloat(isem1.getText().toString()); v2 = Float.parseFloat(isem2.getText().toString()); v3 = Float.parseFloat(isem3.getText().toString()); v4 = Float.parseFloat(isem4.getText().toString()); v5 = Float.parseFloat(isem5.getText().toString()); v6 = Float.parseFloat(isem6.getText().toString()); v7 = Float.parseFloat(isem7.getText().toString()); v8 = Float.parseFloat(isem8.getText().toString()); sum = sumation(v1,v2,v3,v4,v5,v6,v7,v8);

sum = sum/8;

percent = (Double) (sum -0.75) \* 10;

}

}

});

}

iresult.setText(Float.toString(sum).substring(0,4)); ipercent.setText(percent.toString().substring(0,5)+"%");

iclear.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

}

});

}

iresult.setText(null); ipercent.setText(null); isem1.setText(null); isem2.setText(null); isem3.setText(null); isem4.setText(null); isem5.setText(null); isem6.setText(null); isem7.setText(null); isem8.setText(null);

float sumation (float a1,float a2,float a3,float a4,float a5,float a6,float a7,float a8){ float sum = 0;

sum = a1+a2+a3+a4+a5+a6+a7+a8; return sum;

}

float sumation (float a1,float a2,float a3,float a4,float a5,float a6,float a7){ float sum = 0;

sum = a1+a2+a3+a4+a5+a6+a7; return sum;

}

float sumation (float a1,float a2,float a3,float a4,float a5,float a6){ float sum = 0;

sum =a1+a2+a3+a4+a5+a6; return sum;

}

float sumation (float a1,float a2,float a3,float a4,float a5){ float sum = 0;

sum = a1+a2+a3+a4+a5; return sum;

}

float sumation (float a1,float a2,float a3,float a4){ float sum = 0;

sum = a1+a2+a3+a4; return sum;

}

}

#### Result Activity

package com.example.vtucompanion;

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.TextView;

public class inside2vturesults extends AppCompatActivity { private TextView welcome2;

private Button prevvtu; private Button vtu; @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_inside2vturesults); welcome2 =findViewById(R.id.textView152); prevvtu = findViewById(R.id.vtu4u);

vtu = findViewById(R.id.resultvtu);

welcome2.setText(" Hello "+MainActivity.forinsider+" hope you are having ");

prevvtu.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { gotoUrl("https[://www.](http://www.vtu4u.com/)vtu[4u.com/")](http://www.vtu4u.com/);

}

});

vtu.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { gotoUrl("https://results.vtu.ac.in/");

}

});

}

private void gotoUrl(String s) { Uri A = Uri.parse(s);

startActivity(new Intent(Intent.ACTION\_VIEW,A));

}

}

#### Study Matirial Activity

package com.example.vtucompanion;

import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle;

public class insideStudyMaterials extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_inside\_study\_materials);

}

}