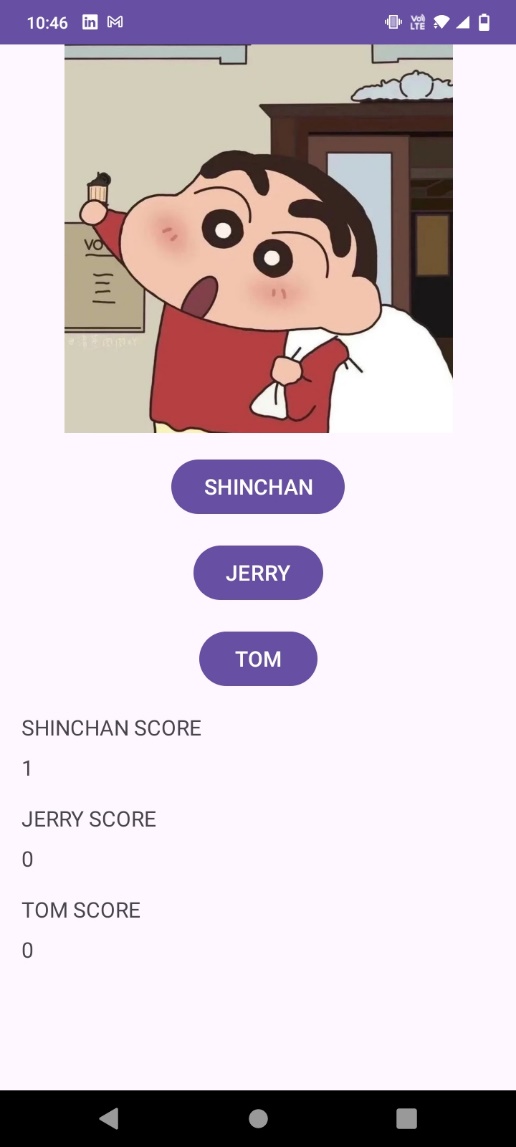
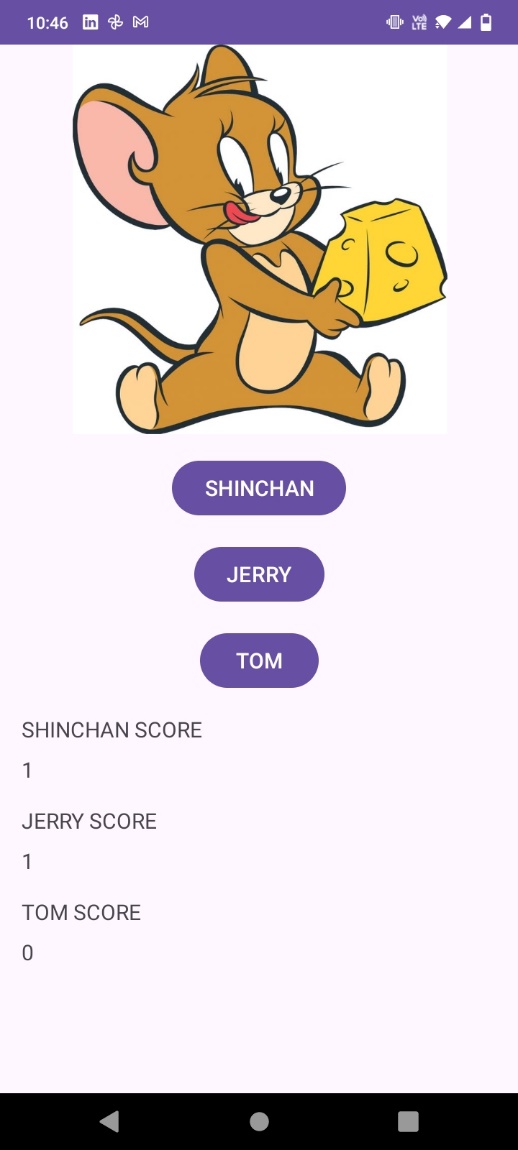
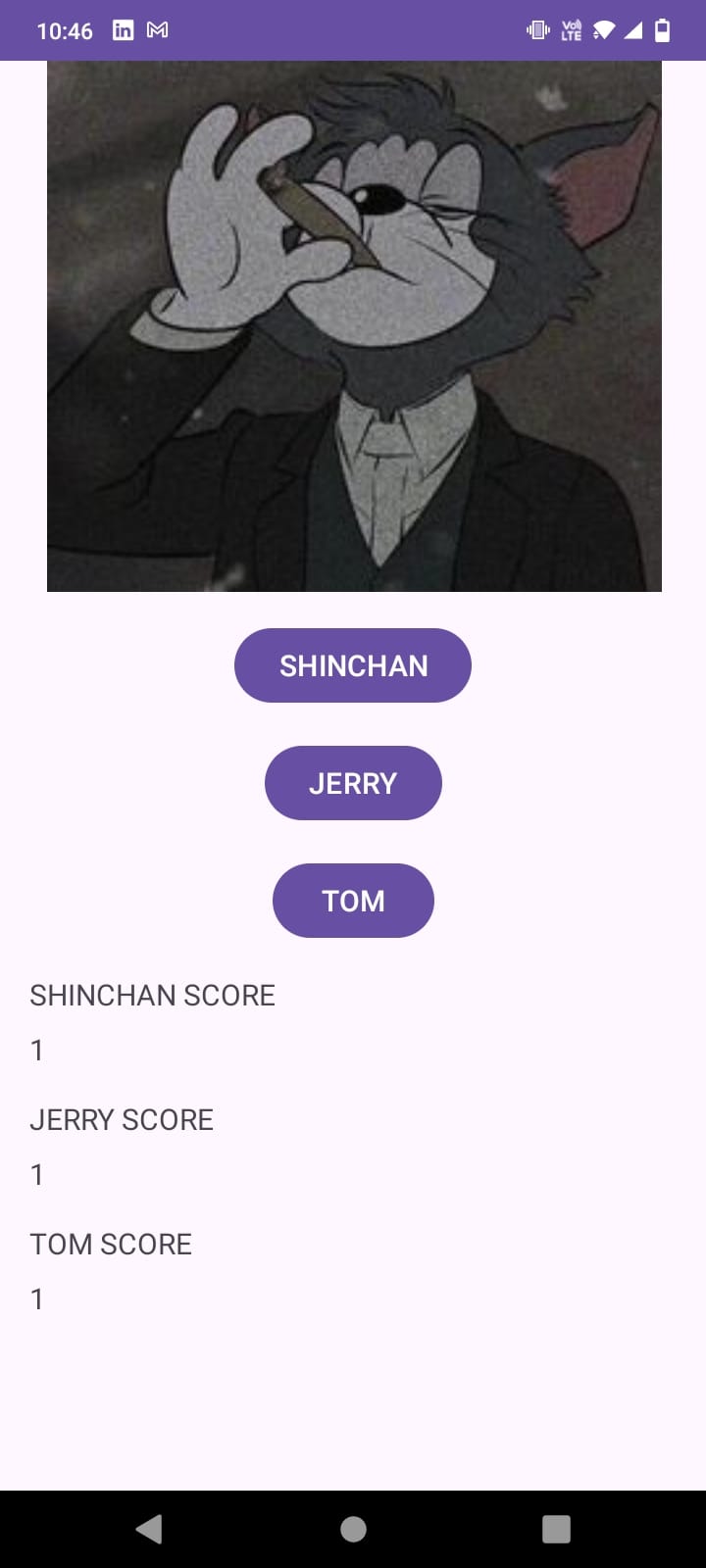
Output: -

**Shinchan**  **Jerry Tom**



**Assignment 11**

Activity\_register.java

package com.example.database;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class activity\_register extends AppCompatActivity {

private EditText etName, etEmail, etPassword;

private Button btnRegister;

private DatabaseHelper db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_register);

etName = findViewById(R.id.etName);

etEmail = findViewById(R.id.etEmail);

etPassword = findViewById(R.id.etPassword);

btnRegister = findViewById(R.id.btnRegister);

db = new DatabaseHelper(this);

btnRegister.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String name = etName.getText().toString();

String email = etEmail.getText().toString();

String password = etPassword.getText().toString();

if (name.isEmpty() || email.isEmpty() || password.isEmpty()) {

Toast.makeText(activity\_register.this, "Please fill all fields", Toast.LENGTH\_SHORT).show();

} else {

boolean isInserted = db.insertUser(name, email, password);

if (isInserted) {

Toast.makeText(activity\_register.this, "Registration Successful", Toast.LENGTH\_SHORT).show();

startActivity(new Intent(activity\_register.this, LoginActivity.class));

} else {

Toast.makeText(activity\_register.this, "Registration Failed", Toast.LENGTH\_SHORT).show();

}

}

}

});

}

}

DatabaseHelper.java

package com.example.database;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class DatabaseHelper extends SQLiteOpenHelper {

public static final String DATABASE\_NAME = "users.db";

public static final String TABLE\_NAME = "user\_table";

public static final String COL\_1 = "ID";

public static final String COL\_2 = "NAME";

public static final String COL\_3 = "EMAIL";

public static final String COL\_4 = "PASSWORD";

public DatabaseHelper(Context context) {

super(context, DATABASE\_NAME, null, 1);

}

@Override

public void onCreate(SQLiteDatabase db) {

db.execSQL("CREATE TABLE " + TABLE\_NAME + " (ID INTEGER PRIMARY KEY AUTOINCREMENT, NAME TEXT, EMAIL TEXT, PASSWORD TEXT)");

}

@Override

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

db.execSQL("DROP TABLE IF EXISTS " + TABLE\_NAME);

onCreate(db);

}

public boolean insertUser(String name, String email, String password) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put(COL\_2, name);

contentValues.put(COL\_3, email);

contentValues.put(COL\_4, password);

long result = db.insert(TABLE\_NAME, null, contentValues);

return result != -1;

}

public boolean checkUser(String email, String password) {

SQLiteDatabase db = this.getReadableDatabase();

Cursor cursor = db.rawQuery("SELECT \* FROM " + TABLE\_NAME + " WHERE EMAIL=? AND PASSWORD=?", new String[]{email, password});

return cursor.getCount() > 0;

}

public Cursor getUserDetails(String email) {

SQLiteDatabase db = this.getReadableDatabase();

return db.rawQuery("SELECT \* FROM " + TABLE\_NAME + " WHERE EMAIL=?", new String[]{email});

}

}

LoginActivity.java

package com.example.database;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class LoginActivity extends AppCompatActivity {

private EditText etEmail, etPassword;

private Button btnLogin, btnRegister;

private DatabaseHelper db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login);

etEmail = findViewById(R.id.etEmail);

etPassword = findViewById(R.id.etPassword);

btnLogin = findViewById(R.id.btnLogin);

btnRegister = findViewById(R.id.btnRegister);

db = new DatabaseHelper(this);

btnLogin.setOnClickListener(v -> {

String email = etEmail.getText().toString();

String password = etPassword.getText().toString();

if (email.isEmpty() || password.isEmpty()) {

Toast.makeText(LoginActivity.this, "Please fill all fields", Toast.LENGTH\_SHORT).show();

} else {

boolean isValid = db.checkUser(email, password);

if (isValid) {

Intent intent = new Intent(LoginActivity.this, ProfileActivity.class);

intent.putExtra("email", email);

startActivity(intent);

finish();

} else {

Toast.makeText(LoginActivity.this, "Invalid Email or Password", Toast.LENGTH\_SHORT).show();

}

}

});

btnRegister.setOnClickListener(v -> startActivity(new Intent(LoginActivity.this, activity\_register.class)));

}

}

ProfileActivity.java

package com.example.database;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import android.widget.Toast;

public class ProfileActivity extends AppCompatActivity {

private TextView tvName, tvEmail;

private Button btnLogout;

private DatabaseHelper db;

private String email;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_profile);

// Initialize UI elements

tvName = findViewById(R.id.tvName);

tvEmail = findViewById(R.id.tvEmail);

btnLogout = findViewById(R.id.btnLogout);

db = new DatabaseHelper(this);

// Get the email passed from LoginActivity

email = getIntent().getStringExtra("email");

loadUserDetails(email);

// Set up the logout button click listener

btnLogout.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

startActivity(new Intent(ProfileActivity.this, LoginActivity.class));

finish(); // Close the ProfileActivity

}

});

}

private void loadUserDetails(String email) {

Cursor cursor = db.getUserDetails(email);

if (cursor != null && cursor.moveToFirst()) {

String name = cursor.getString(1); // Column 1 is NAME

String userEmail = cursor.getString(2); // Column 2 is EMAIL

tvName.setText(name);

tvEmail.setText(userEmail);

} else {

Toast.makeText(this, "User details not found", Toast.LENGTH\_SHORT).show();

}

// Close the cursor to prevent memory leaks

if (cursor != null) {

cursor.close();

}

}

}

activity\_profile.xml

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

<LinearLayout 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:orientation="vertical"

tools:context=".ProfileActivity">

<TextView

android:id="@+id/tvName"

android:textSize="50dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Name" />

<TextView

android:id="@+id/tvEmail"

android:textSize="50dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Email" />

<Button

android:id="@+id/btnLogout"

android:textSize="50dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Logout" />

</LinearLayout>

