Date: 02/08/24

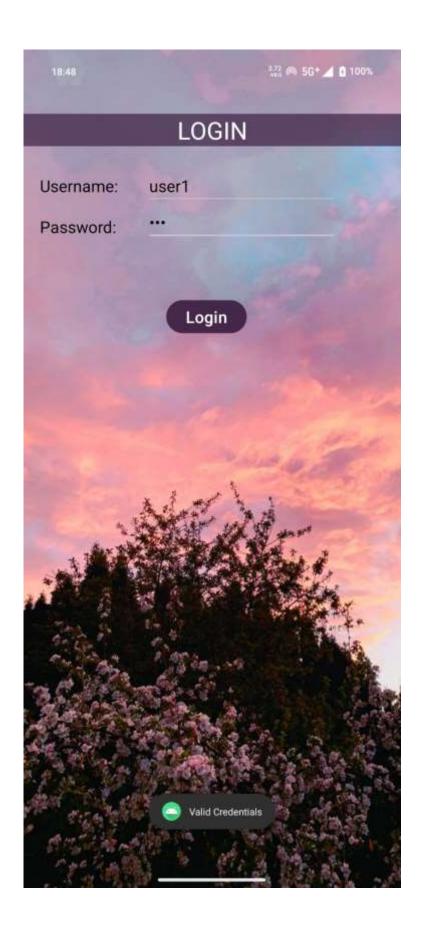
APP 1: Login Page

<u>Aim</u>: Design a Login page with username and password using Linear Layout and Toast valid and invalid credentials.

Program Code:

MainActivity.java

```
package com.example.login;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity
  Button b;
  EditText u,p;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
    b=(Button) findViewById(R.id.b);
    u=(EditText) findViewById(R.id.user);
    p=(EditText) findViewById(R.id.pass);
    b.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View view)
         String user=u.getText().toString();
         String pass=p.getText().toString();
         if (user.equals("user1")&& pass.equals("123"))
            Toast.makeText(getApplicationContext(),"Valid Credentials",Toast.LENGTH SHORT)
            .show();
         else
           Toast.makeText(getApplicationContext(),"Invalid Credentials",
            Toast.LENGTH SHORT).show();
    });
```



```
@Override
     public void onClick(View view)
       t1.setText("");
  });
private void handleButtonClick(int id)
  String txt = t1.getText().toString();
  if (id == R.id.b16)
     if (!firstNumber.isEmpty() && !operator.isEmpty())
       String secondNumber = txt;
       double result = 0;
       double num1 = Double.parseDouble(firstNumber);
       double num2 = Double.parseDouble(secondNumber);
       switch (operator)
          case "+":
            result = num1 + num2;
            break;
          case "-":
            result = num1 - num2;
            break;
          case "x":
            result = num1 * num2;
            break;
          case "/":
            result = num1 / num2;
            break;
       t1.setText(String.valueOf(result));
       firstNumber = "";
       operator = "";
  else if (id == R.id.b10)
     if (!txt.contains("."))
       t1.setText(txt + ((Button) findViewById(id)).getText());
  else if (id == R.id.b12 || id == R.id.b13 || id == R.id.b14 || id == R.id.b15)
     if (!txt.isEmpty())
       firstNumber = txt;
       operator = ((Button) findViewById(id)).getText().toString();
       t1.setText("");
  else if (id == R.id.b11)
     if (txt.length() > 0)
       t1.setText(txt.substring(0, txt.length() - 1));
```



Date: 09/08/24

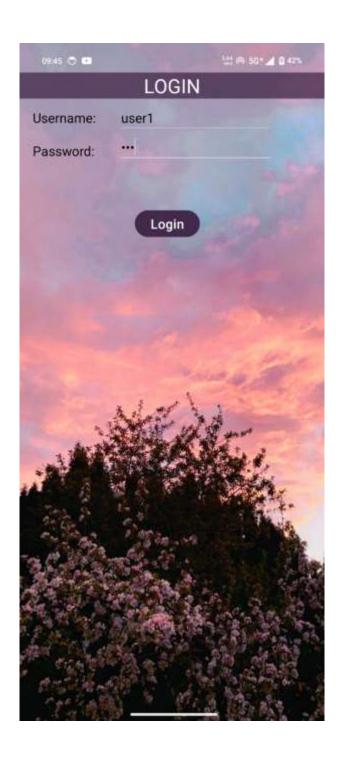
APP 3: Intent

Aim: Create 2 activities, 1st activity contains login details, when clicked on submit go to 2nd activity.

Program Code:

MainActivity.java

```
package com.example.loginapp;
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 androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity
  Button b;
  EditText u,p;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
    b=(Button) findViewById(R.id.b);
    u=(EditText) findViewById(R.id.user);
    p=(EditText) findViewById(R.id.pass);
    b.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View view)
         String user=u.getText().toString();
         String pass=p.getText().toString();
         if (user.equals("user1")&& pass.equals("123"))
           Toast.makeText(getApplicationContext(),"Valid Credentials", Toast.LENGTH SHORT)
           Intent i=new Intent(MainActivity.this,HomePage.class);
           i.putExtra("user",user);
           startActivity(i);
         else
           Toast.makeText(getApplicationContext(),"Invalid Credentials",
            Toast.LENGTH SHORT).show();
     }); }}
```





```
android:text="This is the Home Page:" android:layout_marginTop="100dp" android:layout_marginLeft="125dp" android:textSize="20dp" android:textColor="#000000"/>
```

<Button android:id="@+id/b" android:layout width="wrap content"

```
android:layout_height="wrap_content"
android:layout_marginLeft="175dp"
android:layout_marginTop="875dp"
android:backgroundTint="#ffa99f"
android:textColor="#B23B1E40"
android:text="Logout"
android:textSize="20dp"/>
</RelativeLayout>
</LinearLayout>
```

<u>Result</u>: The program has executed successfully and output is verified.

13428-13428 Appstate	com.example.start	D	Created
13428-13428 Appstate	com.example.start	D	Starting
13428-13428 Appstate	com.example.start		Resuming
13428-13428 Appstate	com.example.start	D	Paused
13428-13428 Appstate	com.example.start	D	Stopped
13428-13428 Appstate	com.example.start	D	Restarted
13428-13428 Appstate	com.example.start		Starting
13428-13428 Appstate	com.example.start	D	Resuming
13428-13428 Appstate	com.example.start	D	Paused
13428-13428 Appstate	com.example.start	D	Stopped
13428-13428 Appstate	com.example.start		Restarted
13428-13428 Appstate	com.example.start	D	Starting
13428-13428 Appstate	com.example.start	D	Resuming
13428-13428 Appstate	com.example.start	D	Paused
13428-13428 Appstate	com.example.start	D	Stopped
13428-13428 Appstate	com.example.start	D	Destroyed