CREATING LOGIN PAGE

AIM:

To creating Login page using Mobile Application.

ALGORITHM:

- **Step 1**: Design the layout in activity_main.xml, including two EditText fields for the username and password, and a Button for submitting the login form.
- **Step 2**: The MainActivity.java, initialize the UI components by linking the EditText fields and Button using findViewById() in the onCreate() method.
- **Step 3**: Set an OnClickListener for the loginButton to handle login actions when the button is clicked.
- **Step 4**: The handleLogin() method, retrieve the text input from the usernameEditText and passwordEditText.
- **Step 5**: Implement simple validation to check if both fields are filled. If not, show a Toast message prompting the user to enter both fields.
- **Step 6**: Compare the entered username and password against predefined credentials (e.g., "admin" and "password"). If they match, show a success message using Toast.
- **Step 7**: If the credentials do not match, show an error message using Toast indicating that the credentials are invalid.
- **Step 8**: Stop the Process.

MainActivity.java

```
package com.example.loginpageapp;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
       private EditText usernameInput;
       private EditText passwordInput;
       private TextView statusText;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       usernameInput = findViewById(R.id.usernameInput);
       passwordInput = findViewById(R.id.passwordInput);
       statusText = findViewById(R.id.statusText);
       Button loginButton = findViewById(R.id.loginButton);
     loginButton.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
              handleLogin();
```

```
}
       });
       private void handleLogin() {
       String username = usernameInput.getText().toString();
       String password = passwordInput.getText().toString();
       if (username.isEmpty() || password.isEmpty()) {
       statusText.setText("Please enter both username and password.");
       } else if (username.equals("user") && password.equals("pass")) {
        statusText.setText("Login successful!");
       // Proceed to another activity or perform login operations
       } else {
        statusText.setText("Invalid username or password.");
}
activity main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
   android:layout_width="match_parent"
   android:layout height="match parent"
       android:padding="16dp">
       <TextView
     android:id="@+id/usernameLabel"
     android:layout width="wrap content"
```

```
android:layout height="wrap content"
 android:text="Username"
 android:textSize="18sp"
android:layout alignParentTop="true"
 android:layout marginTop="40dp"/>
  <EditText
android:id="@+id/usernameInput"
android:layout width="match parent"
android:layout height="wrap content"
android:layout below="@+id/usernameLabel"
android:layout marginTop="8dp"
 android:hint="Enter username"
android:inputType="text"/>
 <TextView
android:id="@+id/passwordLabel"
android:layout width="wrap content"
android:layout height="wrap content"
 android:text="Password"
 android:textSize="18sp"
android:layout below="@+id/usernameInput"
android:layout marginTop="24dp"/>
  <EditText
android:id="@+id/passwordInput"
android:layout width="match parent"
android:layout height="wrap content"
android:layout below="@+id/passwordLabel"
android:layout marginTop="8dp"
 android:hint="Enter password"
```

```
android:inputType="textPassword"/>
      <Button
     android:id="@+id/loginButton"
     android:layout width="wrap content"
     android:layout height="wrap content"
      android:text="Login"
     android:layout_below="@+id/passwordInput"
     android:layout marginTop="24dp"
     android:layout centerHorizontal="true"/>
      <TextView
     android:id="@+id/statusText"
     android:layout width="wrap content"
     android:layout height="wrap content"
      android:text=""
     android:textColor="#FF0000"
     android:layout below="@+id/loginButton"
     android:layout marginTop="16dp"
      android:layout centerHorizontal="true"/>
</RelativeLayout>
AndroidManifest.xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
      package="com.example.loginpageapp">
       <application
     android:allowBackup="true"
     android:icon="@mipmap/ic launcher"
```

</manifest>

Output:

