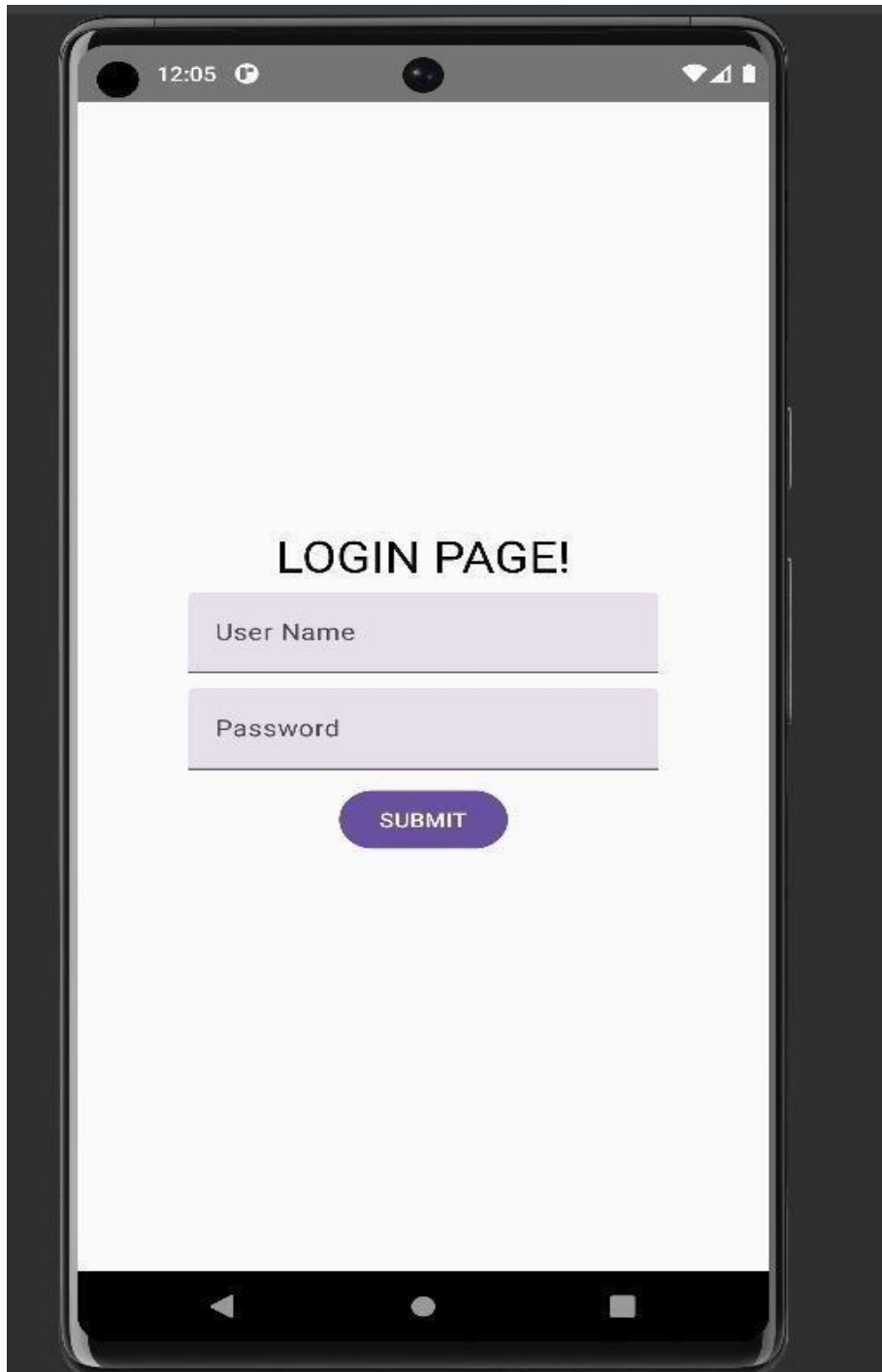# ASSIGNMENT -1

Output:

Code:

```
package com.example.myapplication

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Spacer
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.Button
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TextFieldDefaults
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.setValue
```

```kotlin
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {

            Column(modifier = Modifier.fillMaxSize(),
                verticalArrangement = Arrangement.Center,
                horizontalAlignment = Alignment.CenterHorizontally){
                Text(text = "LOGIN PAGE!", modifier =
Modifier.padding(5.dp),fontSize = 30.sp)
                username()
                Spacer(modifier = Modifier.padding(5.dp))
                password()
                Spacer(modifier = Modifier.padding(5.dp))
                button()

            }

        }
    }
}
```

```kotlin
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun username(){
    var text by remember { mutableStateOf("") }
    TextField(value = text, onValueChange = {it -> text = it}, label =
{Text(text = "User Name")}
    )
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun password(){
    var text by remember { mutableStateOf("") }
    TextField(value = text, onValueChange = {it -> text = it}, label =
{Text(text = "Password")},
        visualTransformation = PasswordVisualTransformation()
    )
}


@Composable
fun button(){
    Button(modifier = Modifier.padding(),onClick = {  }) {
        Text(text = "SUBMIT")
    }
}

@Preview(showBackground = true)
@Composable
fun loginPreview(){
```

```kotlin
    Column(modifier = Modifier.fillMaxSize(),
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally){
        Text(text = "LOGIN PAGE!",modifier = Modifier.padding(5.dp),
fontSize = 30.sp)
        username()
        Spacer(modifier = Modifier.padding(5.dp))
        password()
        Spacer(modifier = Modifier.padding(5.dp))
        button()
    }
}
```