

Assignment – 01

Name : Ch. Naga Chandana Priya Reg .NO : 21BCE9235

Course : Mobile Application Development

Mobile No : 7036295192

Mail : priya.21bce9235@vitapstudent.ac.in

Question :

Design Simple Login Screen with 1 text as loginScreen and with 2 field username and password and 1 button as login

Answer :

MainActivity.kt :

```
package com.example.sample1
```

```
import android.os.Bundle
```

```
import androidx.activity.ComponentActivity
```

```
import androidx.activity.compose.setContent
```

```
import androidx.compose.foundation.layout.Arrangement
```

```
import androidx.compose.foundation.layout.Column
```

```
import androidx.compose.foundation.layout.fillMaxSize
```

```
import androidx.compose.foundation.layout.padding
```

```
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.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.setValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import com.example.sample1.ui.theme.Sample1Theme

```

```

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            Sample1Theme {
                // A surface container using the 'background' color from the
                theme
                Column(
                    modifier = Modifier.fillMaxSize(),
                    horizontalAlignment = Alignment.CenterHorizontally
                ) {
                    SimpleText()
                    simpleTextField()
                    simpleTextField1()
                    simpleButton()
                }
            }
        }
    }
}

```

```

@Composable
fun SimpleText(){
    Text(text = "Login Page",modifier =

```

```
Modifier.padding(16.dp),style = TextStyle.Default)
}
```

```
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleTextField(){
    var text by remember{mutableStateOf("")}
    TextField(value = text, onValueChange = {it -> text = it},label={
        Text(text="Username")
    },modifier = Modifier.padding(20.dp))
}
```

```

}
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleTextField1(){
    var text1 by remember{mutableStateOf("")}
    TextField(value = text1, onValueChange = {it -> text1 = it},label={
        Text(text="Password")
    })
}
```

```

}

@Composable
fun simpleButton(){
    Button(modifier = Modifier.padding(16.dp),onClick={}){
        Text(text = "Login")
    }
}

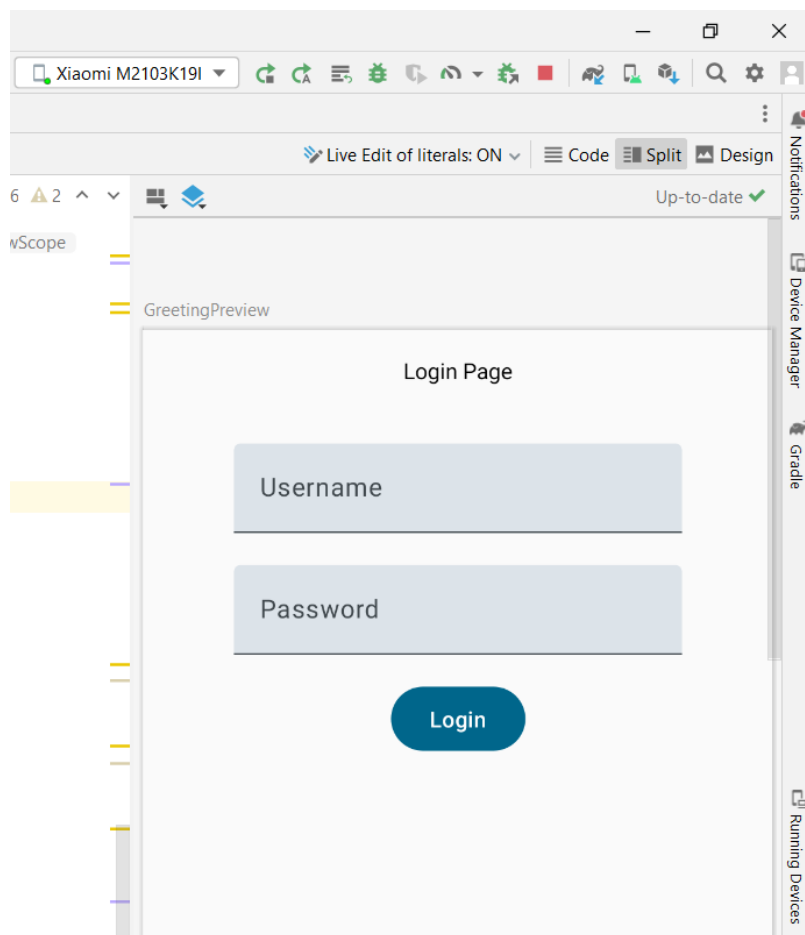
@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    Sample1Theme {
        Column(
            modifier = Modifier.fillMaxSize(),
            horizontalAlignment = Alignment.CenterHorizontally
        )
    }
}
```

```

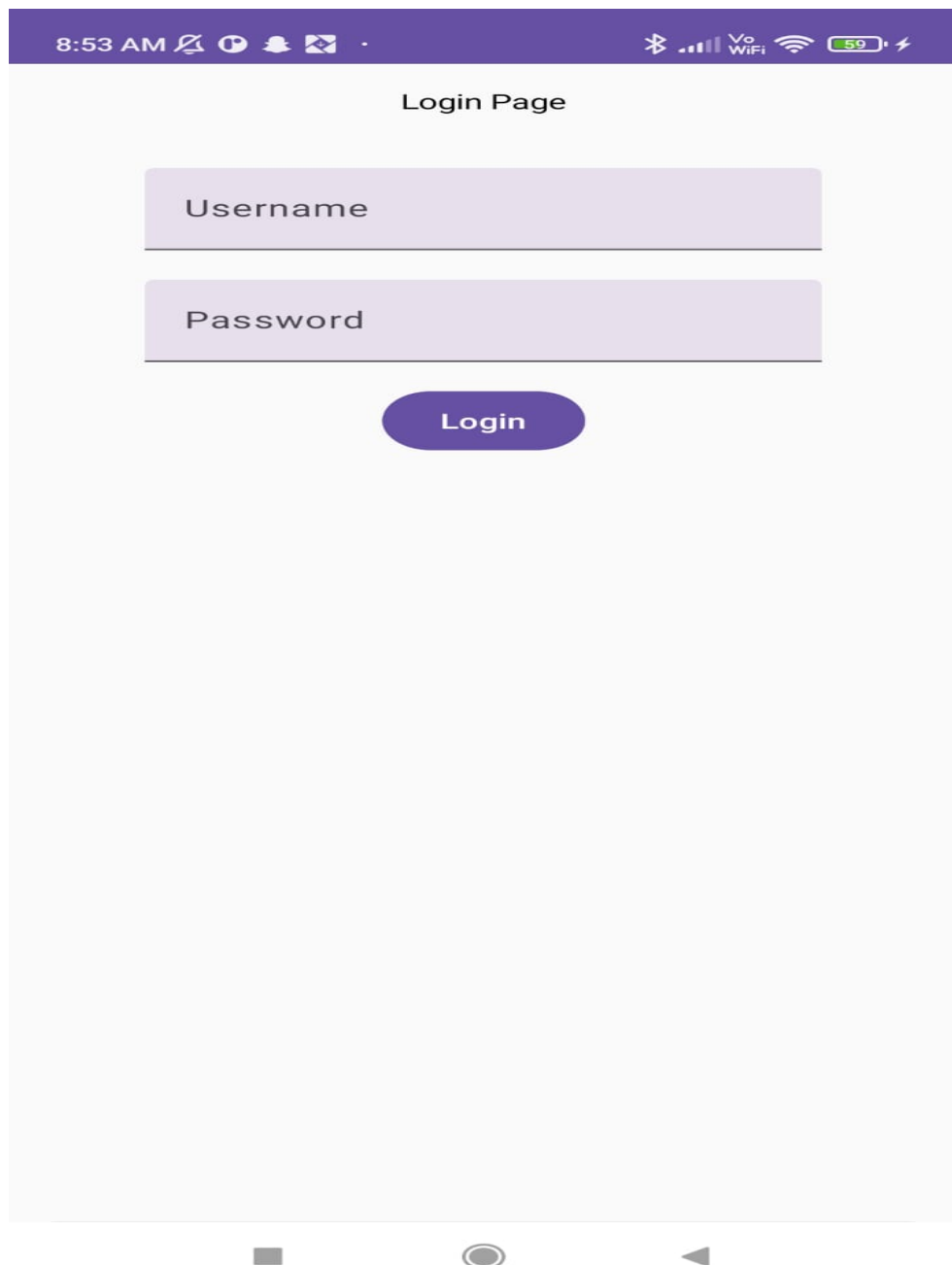
    ) {
        SimpleText()
        simpleTextField()
        simpleTextField1()
        simpleButton()
    }
}
}

```

Preview Image :



Mobile View :



A mobile application login page mockup. The interface features a purple status bar at the top with the time 8:53 AM, notification icons, and connectivity status (Bluetooth, VoWiFi, 59% battery). The main content area is light gray and contains the title "Login Page" centered at the top. Below the title are two light purple input fields: "Username" and "Password". A dark purple rounded button labeled "Login" is positioned below the password field. The bottom of the screen shows a standard Android navigation bar with back, home, and recent apps icons.

8:53 AM

8:53 AM

Bluetooth VoWiFi 59%

Login Page

Username

Password

Login