Assignment – 01

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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 :

```kotlin
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
```

```kotlin
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 =
```

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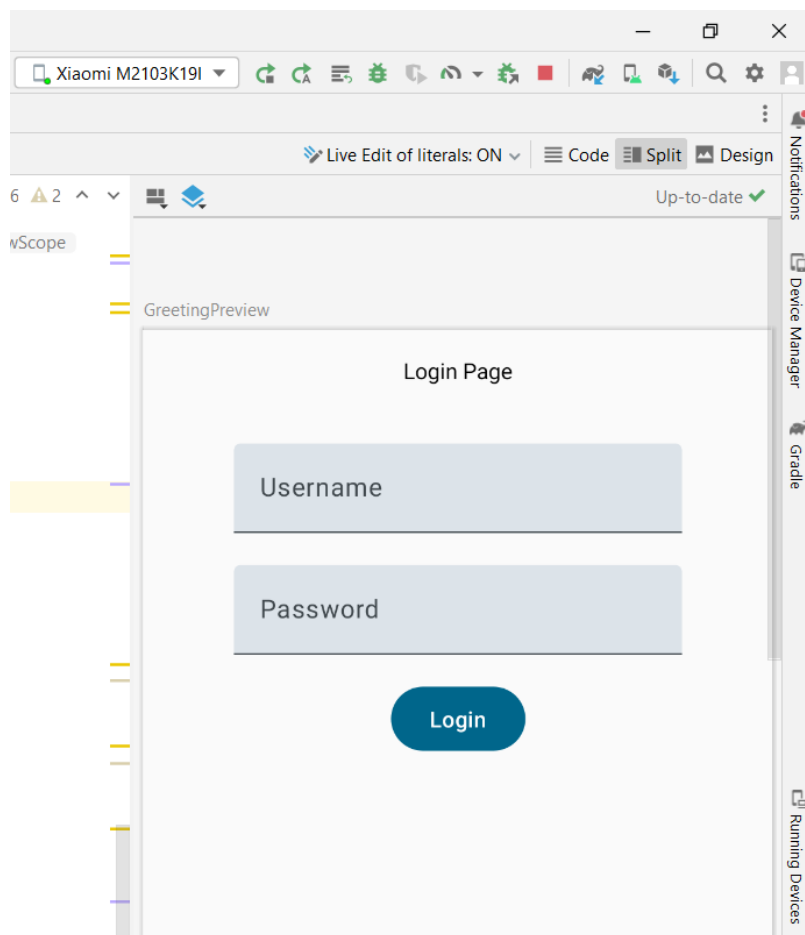
```
    ) {
        SimpleText()
        simpleTextField()
        simpleTextField1()
        simpleButton()
    }

    }
}
```
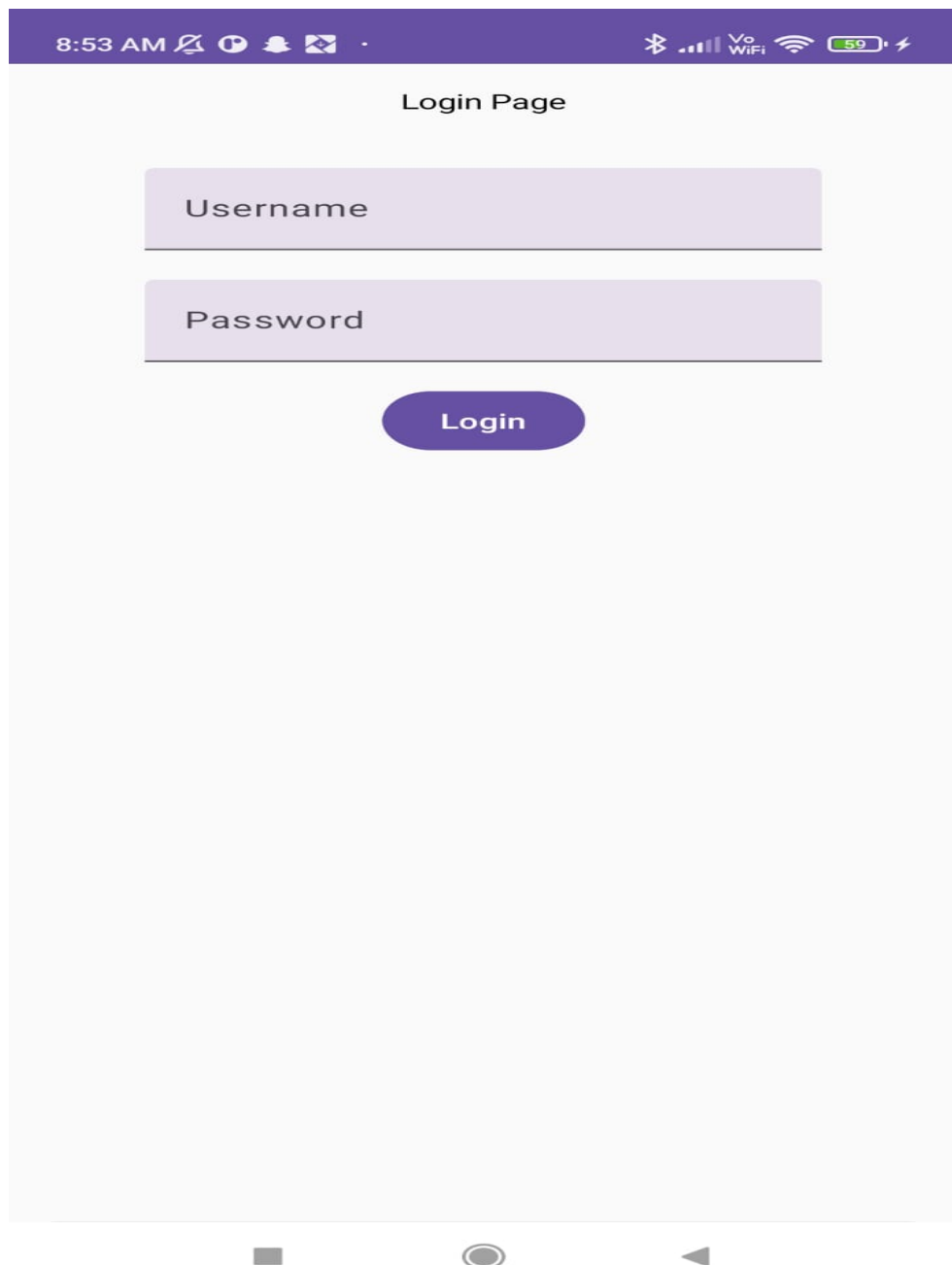
Preview Image :

Mobile View :