Android App Development
Student Name: Sanjana Sivakumar
Register Number: 21BRS1649
Campus: Chennai

Assignment 1

PROBLEM:

Create a login form. Top should have the title, the centre should have two text fields and the bottom should have the submit button.

LINK TO FILE:

https://drive.google.com/drive/folders/1KjJEMC24wpc-3js3Lso8C_ohcMpiB5Uc?usp=sharing

CODE:

```kotlin
package com.example.test1

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.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import com.example.test1.ui.theme.Test1Theme

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

```kotlin
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally
    ){simpleTop()}
    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Bottom
    ){simpleButton()}
    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center
    ){simpleT1()
    simpleT2()
    }
        }
    }
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleT2(){
    var text by remember{mutableStateOf("")}
    TextField(
        value=text,
        onValueChange={it-> text=it},
        label={Text(text="Password")}
    )
}
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleT1(){
    var text by remember{mutableStateOf("")}
    TextField(
        value=text,
        onValueChange={it-> text=it},
        label={Text(text="User Name")}
    )
}
@Composable
fun simpleButton(){
    Button(
        modifier=Modifier.padding(16.dp),
        onClick={/*TODO*/}
    ){Text(text="Submit")}
}
@Composable
```

```kotlin
fun simpleTop(){
    Text(
        text="Assignment 1- 21BRS1649",
        modifier=Modifier.padding(16.dp),
        //verticalArrangement= Arrangement.Top
    )

}
@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally
    ){simpleTop()}
    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Bottom
    ){simpleButton()}
    Column(
        modifier = Modifier.fillMaxSize(),
        horizontalAlignment= Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center
    ){simpleT1()
        simpleT2()
    }
}
```
OUTPUT:

Assignment 1- 21BRS1649

User Name

Password

Submit