package com.example.task3

import android.os.Bundle

import androidx.activity.ComponentActivity

import androidx.activity.compose.setContent

import androidx.compose.foundation.background

import androidx.compose.foundation.layout.\*

import androidx.compose.material3.MaterialTheme

import androidx.compose.material3.Surface

import androidx.compose.material3.Text

import androidx.compose.runtime.Composable

import androidx.compose.ui.Alignment

import androidx.compose.ui.Modifier

import androidx.compose.ui.graphics.Color

import androidx.compose.ui.text.font.FontWeight

import androidx.compose.ui.text.style.TextAlign

import androidx.compose.ui.tooling.preview.Preview

import androidx.compose.ui.unit.dp

import com.example.task3.ui.theme.Task3Theme

class MainActivity : ComponentActivity() {

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContent {

Task3Theme {

Surface(

modifier = Modifier.fillMaxSize(),

color = MaterialTheme.colorScheme.background

) {

ComposeQuadrantApp()

}

}

}

}

}

@Composable

fun ComposeQuadrantApp() {

Column(Modifier.fillMaxSize()) {

Row(Modifier.weight(1f)) {

ComposableInfoCard(

title = "Text composable",

description = "Displays text and follows the recommended Material Design guidelines.",

backgroundColor = Color(0xFFEADDFF),

modifier = Modifier.weight(1f)

)

ComposableInfoCard(

title = "Image composable",

description = "Creates a composable that lays out and draws a given Painter class object.",

backgroundColor = Color(0xFFD0BCFF),

modifier = Modifier.weight(1f)

)

}

Row(Modifier.weight(1f)) {

ComposableInfoCard(

title = "Row composable",

description = "A layout composable that places its children in a horizontal sequence.",

backgroundColor = Color(0xFFB69DF8),

modifier = Modifier.weight(1f)

)

ComposableInfoCard(

title = "Column composable",

description = "A layout composable that places its children in a vertical sequence.",

backgroundColor = Color(0xFFF6EDFF),

modifier = Modifier.weight(1f)

)

}

}

}

@Composable

private fun ComposableInfoCard(

title: String,

description: String,

backgroundColor: Color,

modifier: Modifier = Modifier

) {

Column(

modifier = modifier

.fillMaxSize()

.background(backgroundColor)

.padding(16.dp),

verticalArrangement = Arrangement.Center,

horizontalAlignment = Alignment.CenterHorizontally

) {

Text(

text = title,

fontWeight = FontWeight.Bold,

modifier = Modifier.padding(bottom = 16.dp)

)

Text(

text = description,

textAlign = TextAlign.Justify

)

}

}

@Preview(showBackground = true)

@Composable

fun ComposeQuadrantAppPreview() {

Task3Theme {

ComposeQuadrantApp()

}

}

OUTPUT:

