

# Week 4 Lab Report 3

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**Unit : ICT\_107 Mobile App and Web Development**

*Task 1: Create and run your first Android app:*

*Follow these steps*

*Task 2: Modify the text content, font size and background colour.*

*Task 3: Add two more texts (At least 3 sentences).*

1. Set the first **Text** composable to a **24sp** font size and **16dp** padding (start, end, bottom, and top).
2. Set the second **Text** composable to a default font size, **16dp** padding(start and end), and **Justify** text-align.
3. Set the third **Text** composable to a default font size, **16dp** padding (start, end, bottom, and top), and **Justify** text-align.
4. After you finish the implementation, your design should match this screenshot:

**Code :**

```
package com.example.greetings // Update according to your package structure

import android.graphics.Bitmap
import android.graphics.BitmapFactory
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.layout.Box
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.graphics.asImageBitmap
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp

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

@Composable
fun FullScreenGreetingCard() {
    val context = LocalContext.current
    // Load image as Bitmap
    val bitmap: Bitmap = BitmapFactory.decodeResource(context.resources,
R.drawable.androidparty) // Ensure this matches your image name

    Box(
        modifier = Modifier
            .fillMaxSize()
    ) {
        // Set the background image
        Image(
            bitmap = bitmap.asImageBitmap(),
            contentDescription = null,
            modifier = Modifier.fillMaxSize(),
            contentScale = ContentScale.Crop // Ensures the image fills the
screen
        )

        // Overlaying content
        Column(
            modifier = Modifier
                .fillMaxSize()
                .padding(16.dp)
                .background(Color.Transparent), // Ensure the background is
transparent
            verticalArrangement = Arrangement.Center, // Center vertically

```

```

        horizontalAlignment = Alignment.CenterHorizontally // Center
horizontally
    ) {
        // Greeting text
        Text(
            text = "Welcome to My Greeting Card!",
            fontSize = 24.sp,
            fontWeight = FontWeight.Bold,
            color = Color.Black // Change text color for visibility
        )

        Spacer(modifier = Modifier.height(8.dp))

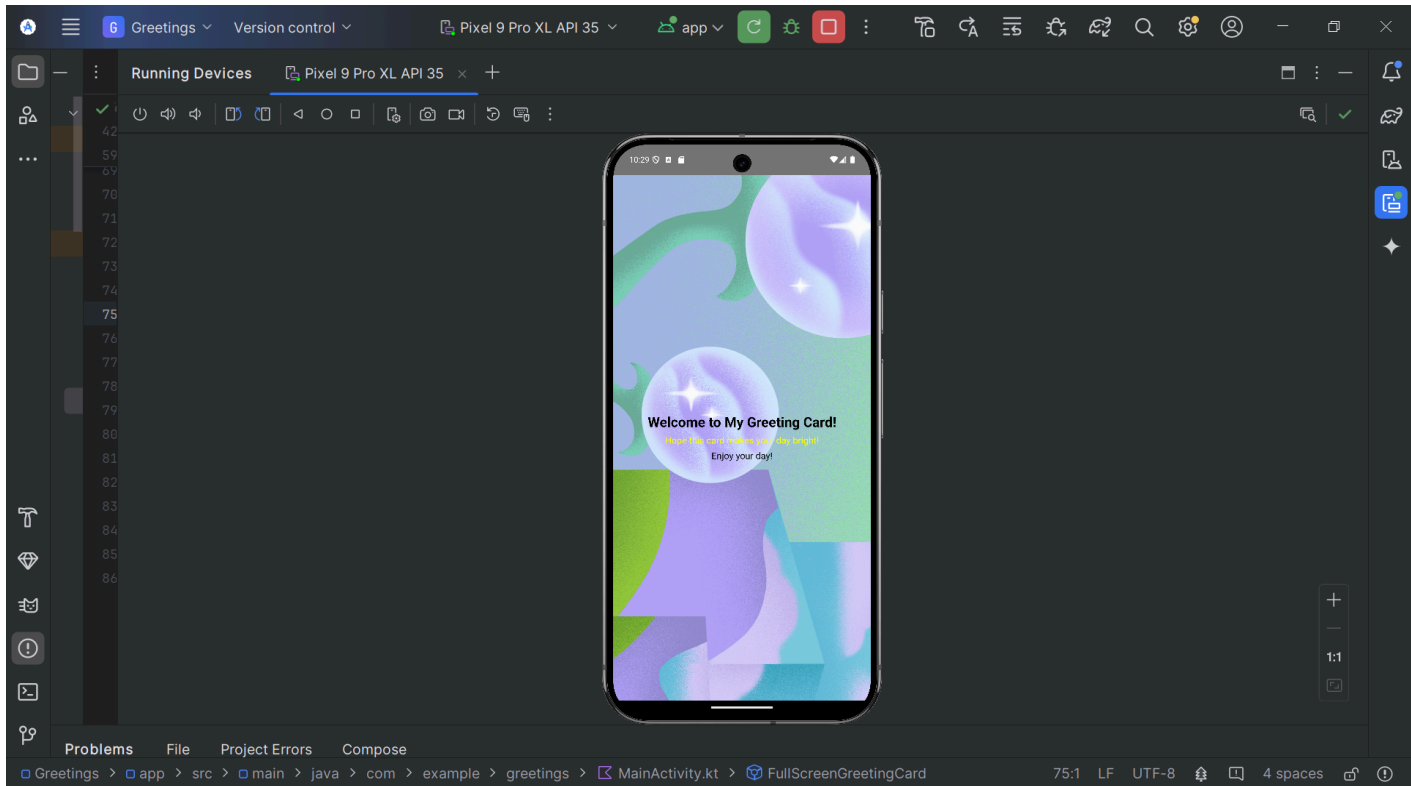
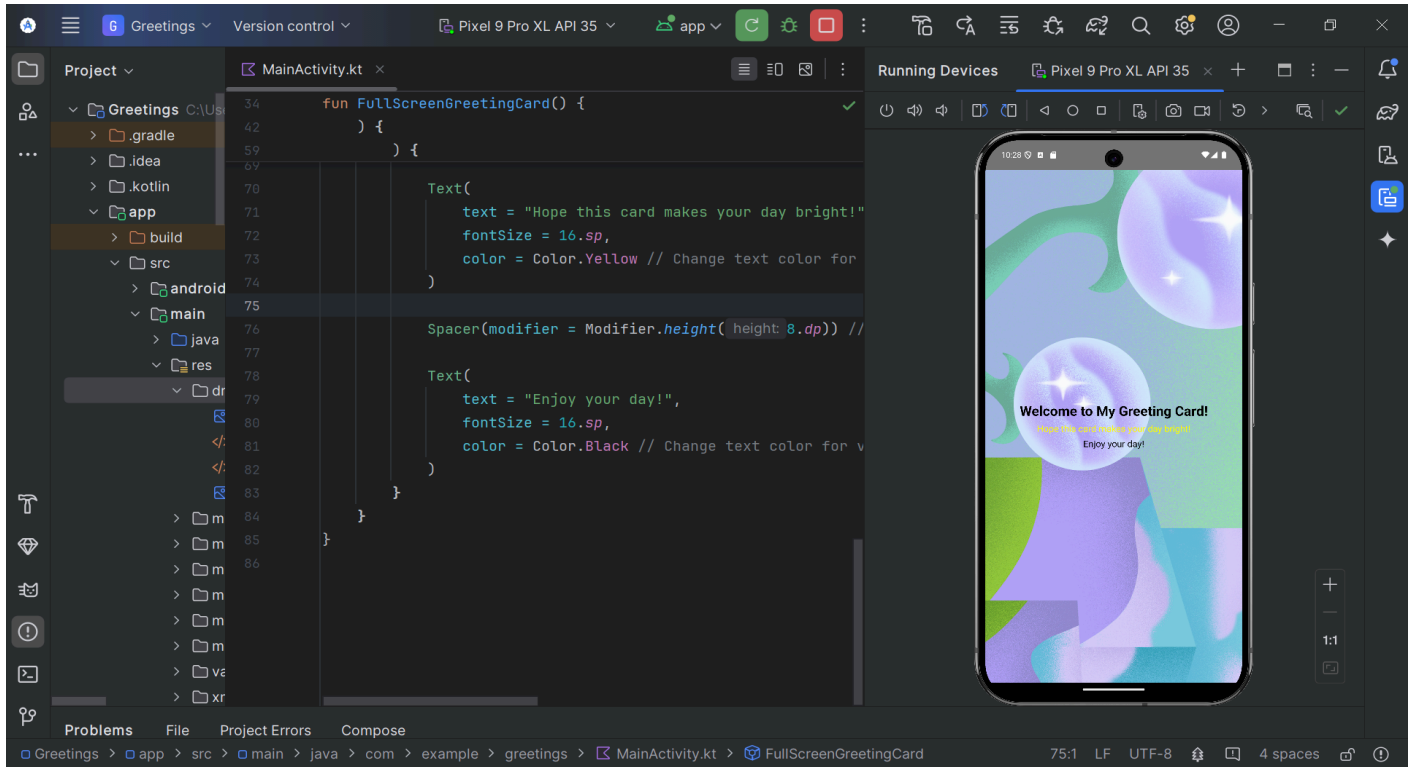
        Text(
            text = "Hope this card makes your day bright!",
            fontSize = 16.sp,
            color = Color.Yellow // Change text color for visibility
        )

        Spacer(modifier = Modifier.height(8.dp)) // Space between lines

        Text(
            text = "Enjoy your day!",
            fontSize = 16.sp,
            color = Color.Black // Change text color for visibility
        )
    }
}

```

**Output :**



## My Favorite Image :

### Code :

```
package com.example.greetings // Update according to your package structure

import android.graphics.Bitmap
import android.graphics.BitmapFactory
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.layout.Box
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.graphics.asImageBitmap
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp

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

@Composable
fun FullScreenGreetingCard() {
    val context = LocalContext.current
    // Load image as Bitmap
    val bitmap: Bitmap = BitmapFactory.decodeResource(context.resources,
R.drawable.my_image) // Ensure this matches your image name

    Box(
        modifier = Modifier
            .fillMaxSize()
    ) {
        // Set the background image
    }
}
```

```

        Image(
            bitmap = bitmap.asImageBitmap(),
            contentDescription = null,
            modifier = Modifier.fillMaxSize(),
            contentScale = ContentScale.Crop // Ensures the image fills the
screen
        )

        // Overlaying content
        Column(
            modifier = Modifier
                .fillMaxSize()
                .padding(16.dp)
                .background(Color.Transparent), // Ensure the background is
transparent
            verticalArrangement = Arrangement.Center, // Center vertically
            horizontalAlignment = Alignment.CenterHorizontally // Center
horizontally
        ) {
            // Greeting text
            Text(
                text = "Welcome to My Greeting Card!",
                fontSize = 24.sp,
                fontWeight = FontWeight.Bold,
                color = Color.White // Change text color for visibility
            )

            Spacer(modifier = Modifier.height(8.dp))

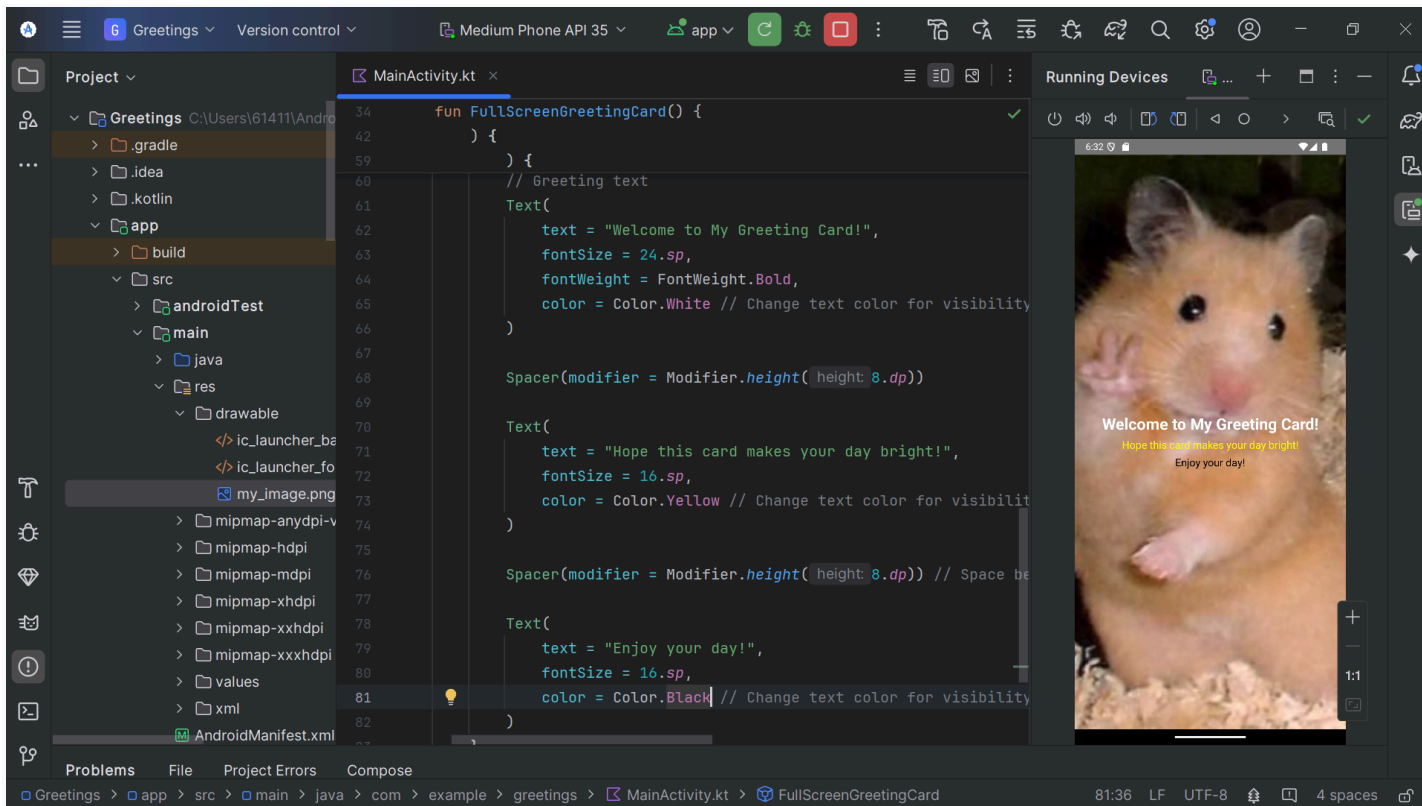
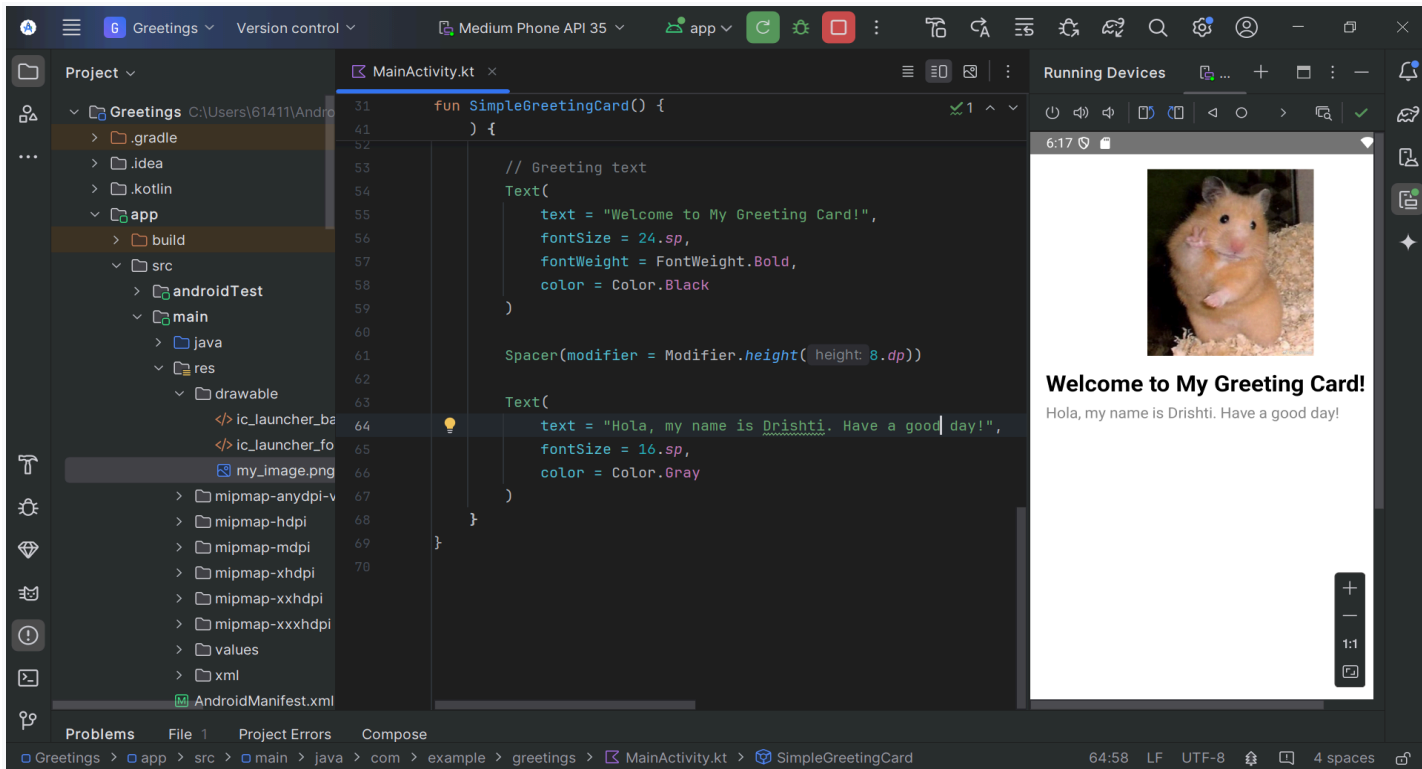
            Text(
                text = "Hope this card makes your day bright!",
                fontSize = 16.sp,
                color = Color.Yellow // Change text color for visibility
            )

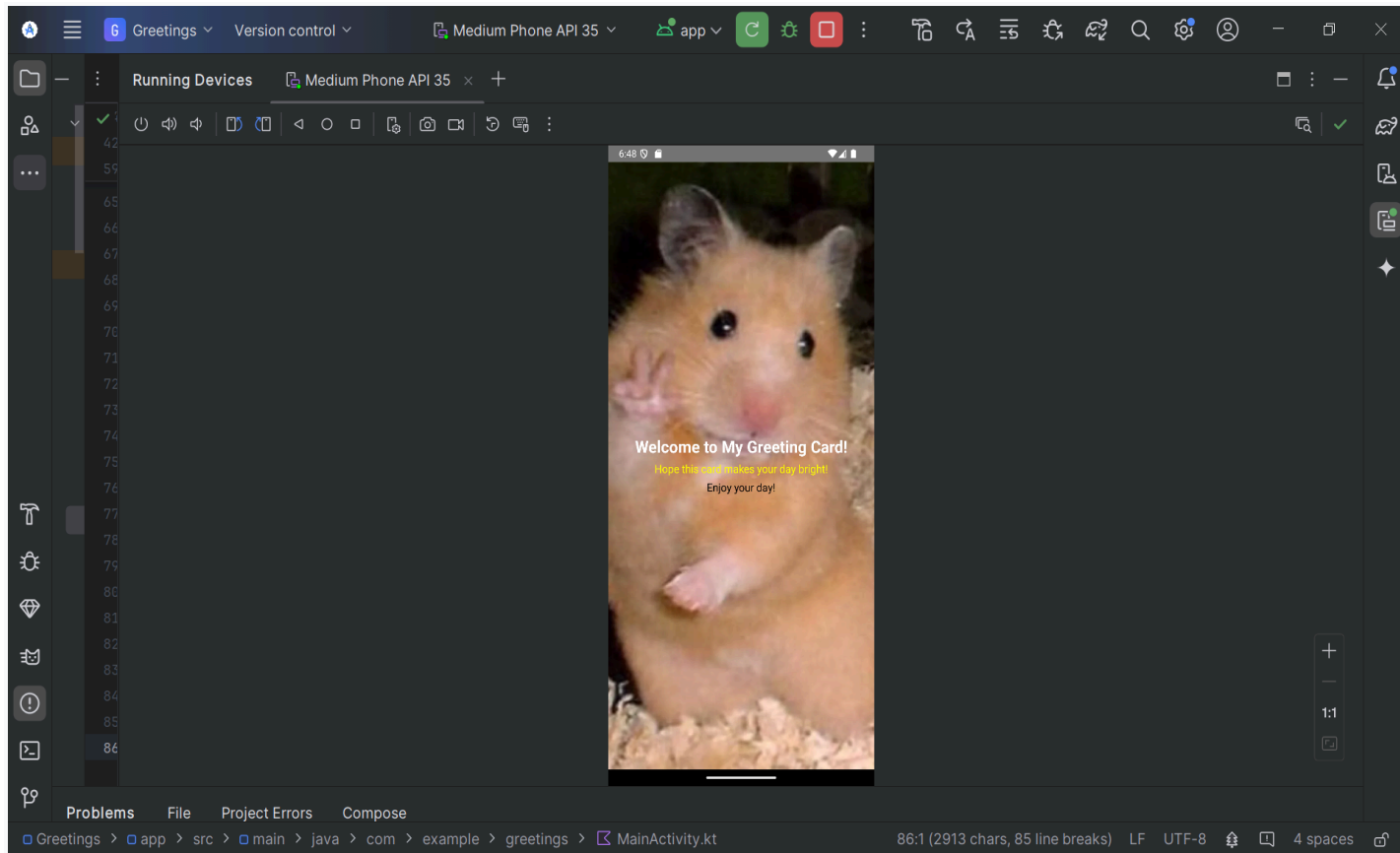
            Spacer(modifier = Modifier.height(8.dp)) // Space between lines

            Text(
                text = "Enjoy your day!",
                fontSize = 16.sp,
                color = Color.Black // Change text color for visibility
            )
        }
    }
}

```

**Output :**





### Source Port :

com/example/greetings/MainActivity.kt

### Reference:

eBay. 2023. *Item Title: [Cute Hamster Model Cricetinae Funny Pet Animal Figure Collector Decor Kids Gift]*. eBay. Available at:

<https://www.ebay.com.au/itm/364345563398> (Accessed: 11 October 2024, 6:56 pm ).

### Note:

Hello Professor,



Since I have used the image from a different source(webpage), I am referencing the image because maybe it can show similarity on Turnitin. Hope there's no marks deduction for using the image from a different source. Thank you for your guidance.

Best Regards,

Drishti Telgu