



# HALIÇ ÜNİVERSİTESİ

## LİSANSÜSTÜ EĞİTİM ENSTİTÜSÜ

BMY549 - İleri Mobil Programlama

1. Dönem Vize Ödevi

**Hafta 5 içerisinde bulunan kaynak sonundaki sorular**

Soru 1: Klavyeden Girilen Metnin Boyutunu veren kodu Kotlinde yazınız.

Soru 2: Girilen Vize ve Final notuna göre harf karşılığını veren programı Kotlin programı kullanarak yazınız.

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## İçindekiler

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## Kaynak Kod

repo: <https://github.com/enescevik/IleriMobilOdev>

```
package com.halic.ilerimobilodev

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.Spacer
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.width
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.outlined.Edit
import androidx.compose.material3.Divider
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Icon
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
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.draw.scale
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import com.halic.ilerimobilodev.ui.theme.IleriMobilOdevTheme
import kotlin.math.roundToInt

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            IleriMobilOdevTheme {
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colorScheme.background
                ) {
                    PageView()
                }
            }
        }
    }
}
```

```

    }
    }
}

@Preview
@Composable
fun PageView() {
    Column(
        modifier = Modifier.fillMaxSize()
    ) {
        Box(
            modifier = Modifier
                .background(color = Color.Green.copy(alpha = 0.2f))
                .padding(8.dp)
                .weight(0.5f)
        ) {
            CalculateLengthView()
        }

        Box(
            modifier = Modifier
                .background(color = Color.Blue.copy(alpha = 0.2f))
                .padding(8.dp)
                .weight(1f)
        ) {
            CalculateLetterView()
        }
    }
}

@Composable
@OptIn(ExperimentalMaterial3Api::class)
fun CalculateLengthView() {
    var input by remember {
        mutableStateOf("")
    }

    Column {
        Column(
            modifier = Modifier.fillMaxWidth(),
            verticalArrangement = Arrangement.Center,
            horizontalAlignment = Alignment.CenterHorizontally
        ) {
            Text(text = "Metin Uzunluğu Hesaplama", fontWeight =
FontWeight.Bold)
        }

        OutlinedTextField(
            modifier = Modifier.fillMaxWidth(),
            value = input,
            onValueChange = { input = it },
            maxLines = 6,
            label = {
                Text(text = "Bir şeyler yazın...")
            },
            leadingIcon = {
                Icon(
                    imageVector = Icons.Outlined.Edit,

```

```

        contentDescription = "Uzunluk"
    )
}
)

Spacer(modifier = Modifier.height(8.dp))
Text(text = "Girilen metnin uzunluğu = %,d".format(input.length))
}
}

@Composable
@OptIn(ExperimentalMaterial3Api::class)
fun CalculateLetterView() {
    var inputMidterm by remember {
        mutableStateOf("")
    }
    var inputFinal by remember {
        mutableStateOf("")
    }

    Column {
        Column(
            modifier = Modifier.fillMaxWidth(),
            verticalArrangement = Arrangement.Center,
            horizontalAlignment = Alignment.CenterHorizontally
        ) {
            Text(text = "Vize ve Final Harf Notu Hesaplama", fontWeight =
FontWeight.Bold)
        }

        Row {
            OutlinedTextField(
                modifier = Modifier.fillMaxWidth(0.5f),
                value = inputMidterm,
                onValueChange = { inputMidterm = it },
                maxLines = 1,
                keyboardOptions = KeyboardOptions(
                    keyboardType = KeyboardType.Number
                ),
                label = {
                    Text(text = "Vize Notu")
                }
            )
            Spacer(modifier = Modifier.width(8.dp))
            Column(
                modifier = Modifier.padding(vertical = 20.dp)
            ) {
                Text(text = "Vize Ağırlığı: %40")
            }
        }

        Row {
            OutlinedTextField(
                modifier = Modifier.fillMaxWidth(0.5f),
                value = inputFinal,
                onValueChange = { inputFinal = it },
                maxLines = 1,
                keyboardOptions = KeyboardOptions(
                    keyboardType = KeyboardType.Number
                ),
                label = {

```

```

        Text(text = "Final Notu")
    }
)
Spacer(modifier = Modifier.width(8.dp))
Column(
    modifier = Modifier.padding(vertical = 20.dp)
) {
    Text(text = "Final Ağırlığı: %60")
}
}

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

Column(
    modifier = Modifier.fillMaxWidth(),
    verticalArrangement = Arrangement.Center,
    horizontalAlignment = Alignment.CenterHorizontally
) {
    val midtermPoint = inputMidterm.toIntOrNull()
    val finalPoint = inputFinal.toIntOrNull()

    if (midtermPoint != null && finalPoint != null
        && midtermPoint >= 0 && midtermPoint <= 100
        && finalPoint >= 0 && finalPoint <= 100
    ) {
        val total = (midtermPoint * 0.4) + (finalPoint * 0.6)

        Text(
            text = "Toplam Puan = ${total.roundToInt()}",
            fontSize = 20.sp
        )

        val letter = when (total) {
            in 90.0..100.0 -> "AA"
            in 80.0..89.0 -> "BA"
            in 70.0..79.0 -> "BB"
            in 65.0..69.0 -> "CB"
            in 60.0..64.0 -> "CC"
            in 55.0..59.0 -> "DC"
            in 50.0..54.0 -> "DD"
            in 0.0..49.0 -> "FF"
            else -> ""
        }

        Text(text = "Harf = $letter",
            fontWeight = FontWeight.Bold,
            color = Color.Blue,
            fontSize = 24.sp,
        )
    } else {
        Text(
            text = "Vize ve Final notuna 0 ile 100 arası değer
giriniz!",
            fontWeight = FontWeight.Bold,
            color = Color.Red
        )
    }
}

Row(modifier = Modifier
    .fillMaxWidth())

```

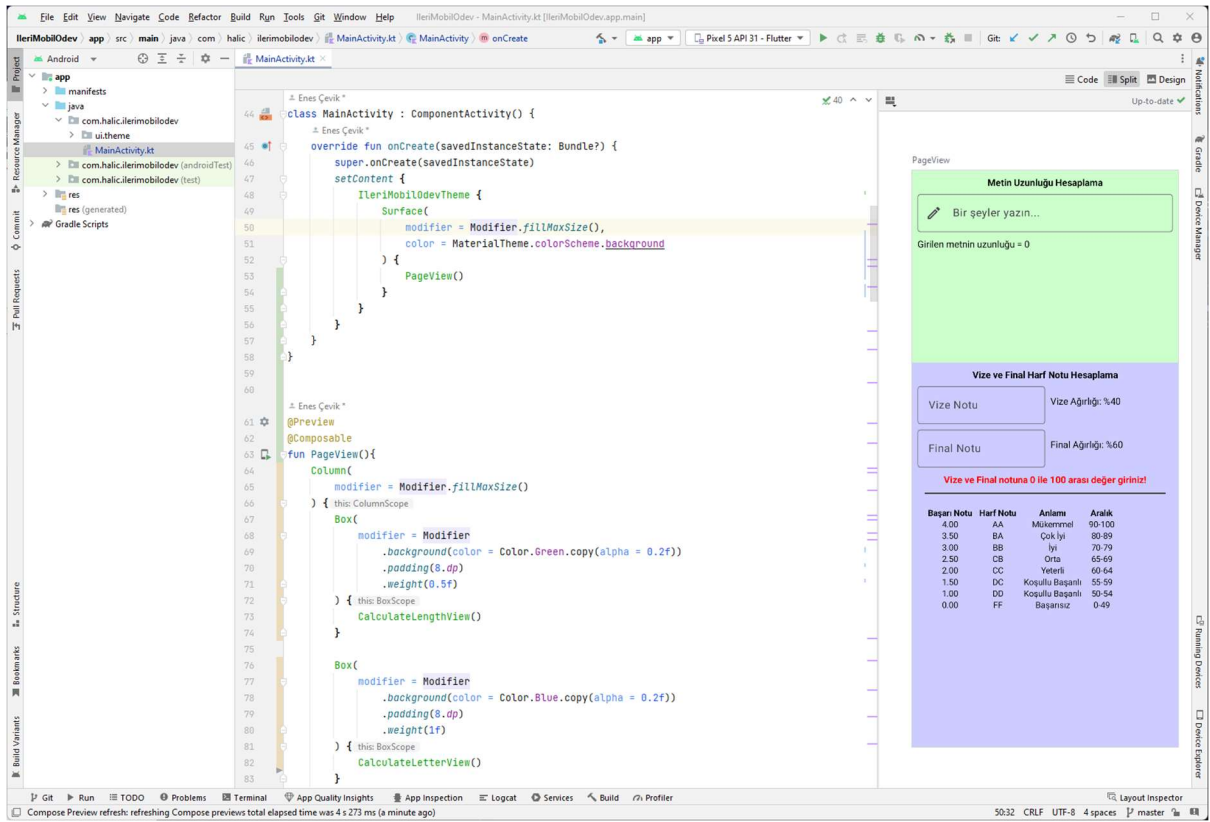
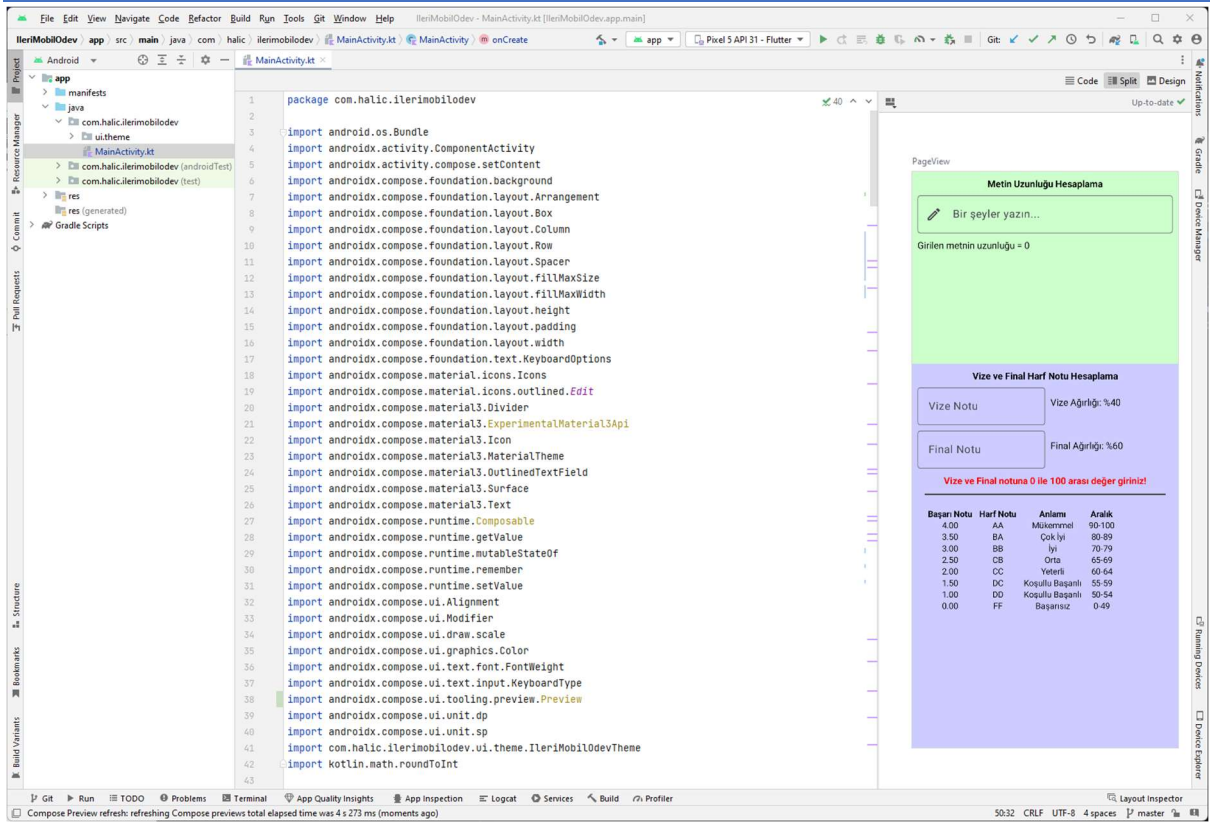
```

        .padding(10.dp)) {
    Divider(
        thickness = 2.dp,
        color = Color.DarkGray
    )
}

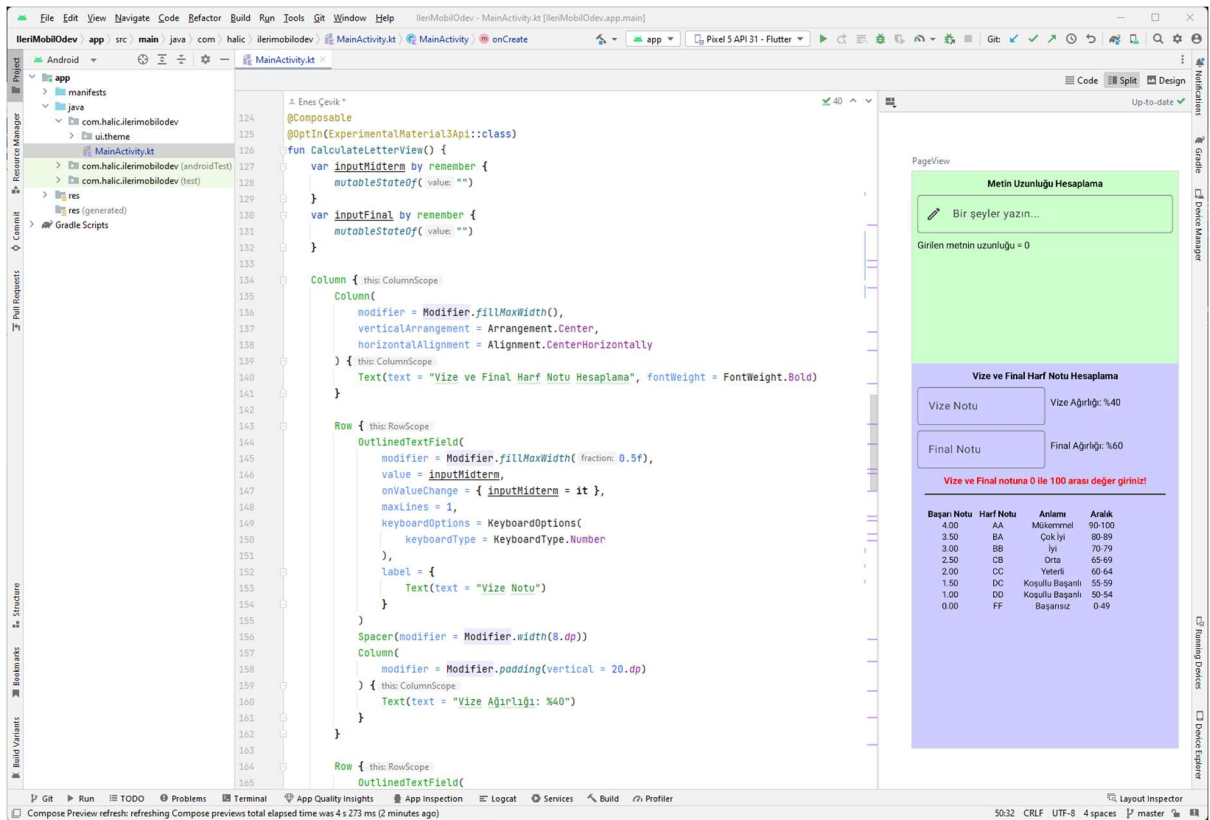
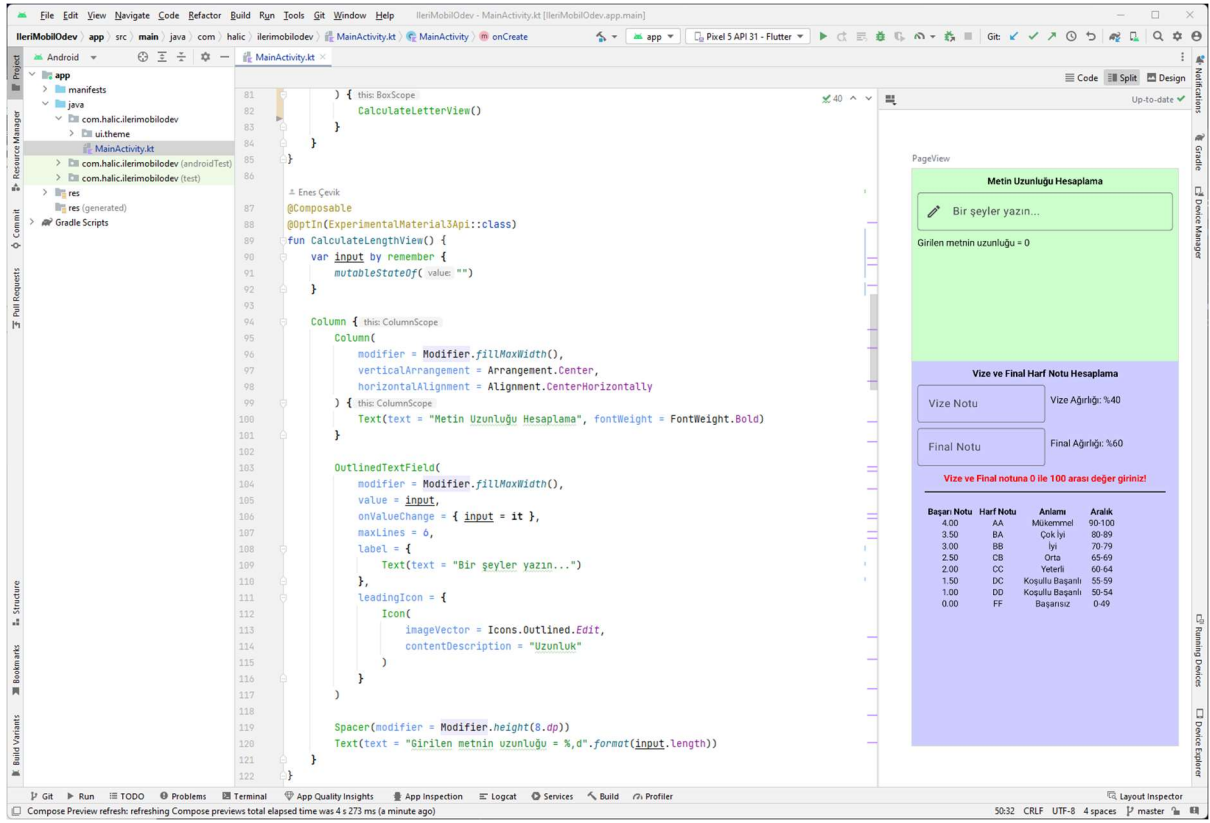
Row(
    modifier = Modifier.scale(0.9f)
) {
    Column(horizontalAlignment = Alignment.CenterHorizontally) {
        Text(text = "Başarı Notu", fontWeight = FontWeight.Bold)
        Text(text = "4.00")
        Text(text = "3.50")
        Text(text = "3.00")
        Text(text = "2.50")
        Text(text = "2.00")
        Text(text = "1.50")
        Text(text = "1.00")
        Text(text = "0.00")
    }
    Spacer(modifier = Modifier.width(12.dp))
    Column(horizontalAlignment = Alignment.CenterHorizontally) {
        Text(text = "Harf Notu", fontWeight = FontWeight.Bold)
        Text(text = "AA")
        Text(text = "BA")
        Text(text = "BB")
        Text(text = "CB")
        Text(text = "CC")
        Text(text = "DC")
        Text(text = "DD")
        Text(text = "FF")
    }
    Spacer(modifier = Modifier.width(12.dp))
    Column(horizontalAlignment = Alignment.CenterHorizontally) {
        Text(text = "Anlamı", fontWeight = FontWeight.Bold)
        Text(text = "Mükemmel")
        Text(text = "Çok İyi")
        Text(text = "İyi")
        Text(text = "Orta")
        Text(text = "Yeterli")
        Text(text = "Koşullu Başarılı")
        Text(text = "Koşullu Başarılı")
        Text(text = "Başarısız")
    }
    Spacer(modifier = Modifier.width(12.dp))
    Column(horizontalAlignment = Alignment.CenterHorizontally) {
        Text(text = "Aralık", fontWeight = FontWeight.Bold)
        Text(text = "90-100")
        Text(text = "80-89")
        Text(text = "70-79")
        Text(text = "65-69")
        Text(text = "60-64")
        Text(text = "55-59")
        Text(text = "50-54")
        Text(text = "0-49")
    }
}
}
}
}
}

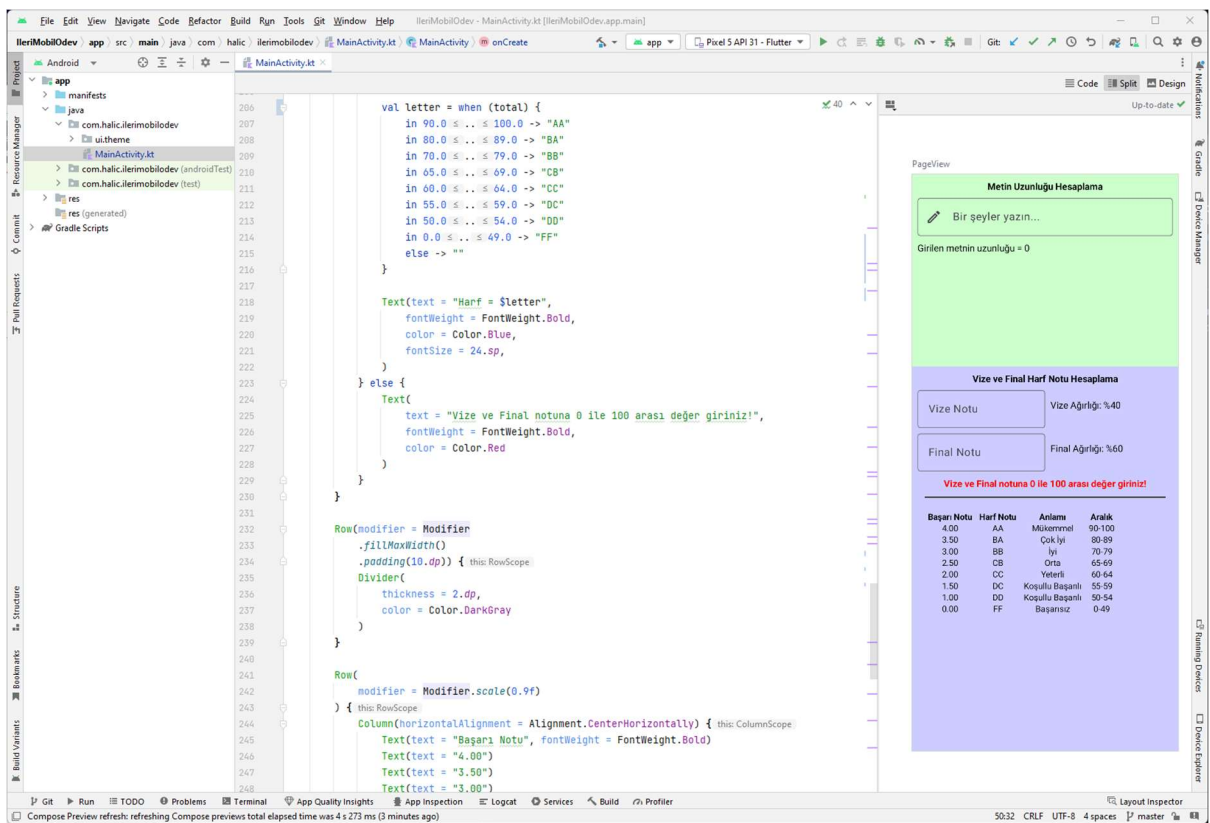
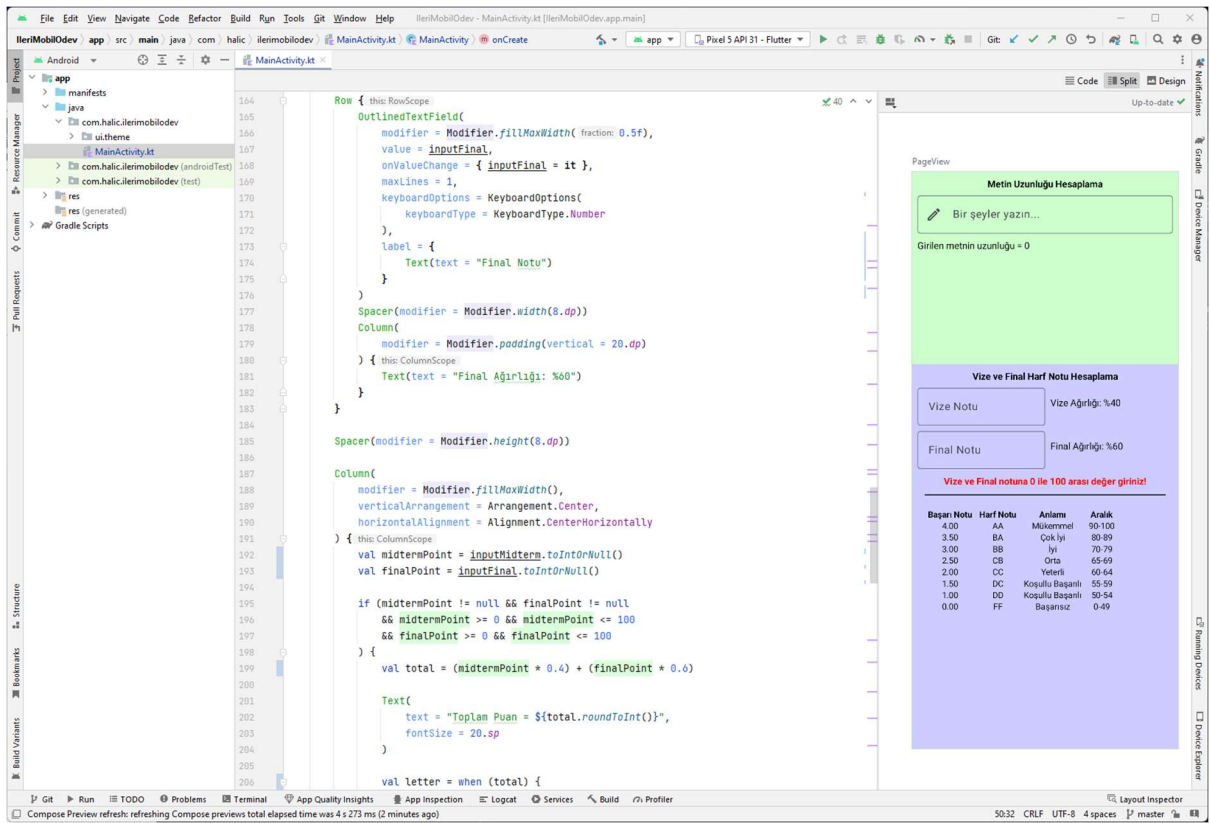
```

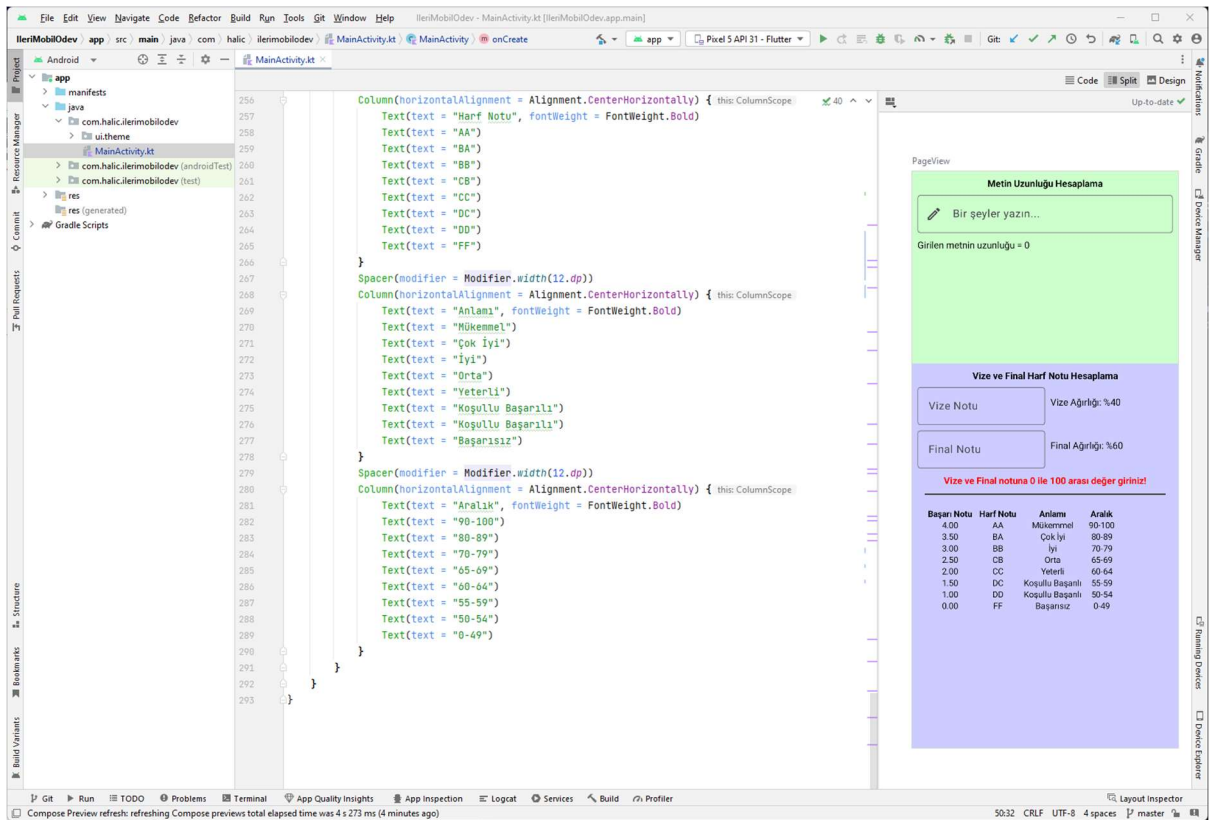
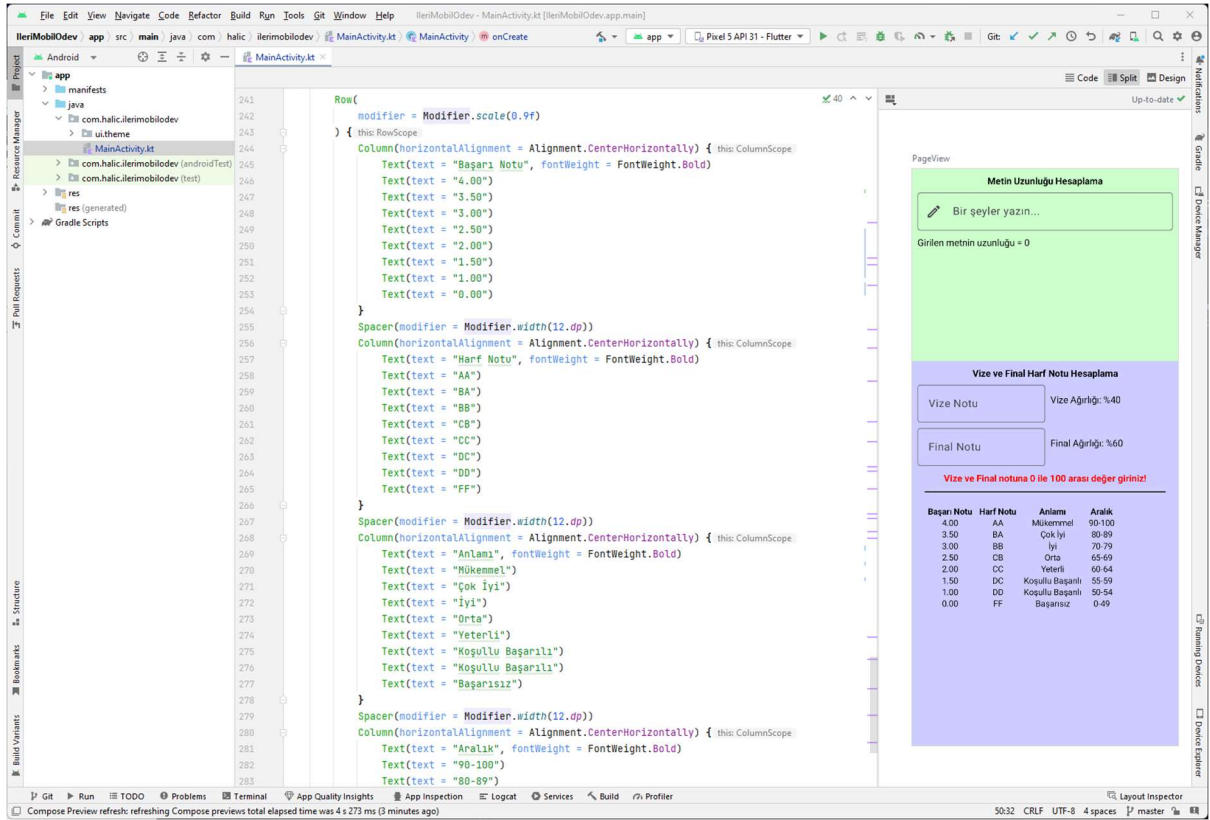
# Kodun Ekran Görüntüleri












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### Metin Uzunluğu Hesaplama

 Bir şeyler yazın...

Girilen metnin uzunluğu = 0

### Vize ve Final Harf Notu Hesaplama

Vize Notu

Vize Ağırlığı: %40

Final Notu

Final Ağırlığı: %60


**Vize ve Final notuna 0 ile 100 arası değer giriniz!**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	AA	Mükemmel	90-100
3.50	BA	Çok İyi	80-89
3.00	BB	İyi	70-79
2.50	CB	Orta	65-69
2.00	CC	Yeterli	60-64
1.50	DC	Koşullu Başarılı	55-59
1.00	DD	Koşullu Başarılı	50-54
0.00	FF	Başarısız	0-49

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### Metin Uzunluđu Hesaplama

Bir Őeyler yazın...

 Lorem Ipsum

Girilen metnin uzunluđu = 11

### Vize ve Final Harf Notu Hesaplama

Vize Notu

Vize Ađırlıđı: %40

Final Notu

Final Ađırlıđı: %60

**Vize ve Final notuna 0 ile 100 arası deđer giriniz!**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	AA	Mükemmel	90-100
3.50	BA	Çok İyi	80-89
3.00	BB	İyi	70-79
2.50	CB	Orta	65-69
2.00	CC	Yeterli	60-64
1.50	DC	Koşullu Başarılı	55-59
1.00	DD	Koşullu Başarılı	50-54
0.00	FF	Başarısız	0-49



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### Metin Uzunluğu Hesaplama

Bir şeyler yazın...

popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Girilen metnin uzunluğu = 574

### Vize ve Final Harf Notu Hesaplama

Vize Notu

Vize Ağırlığı: %40

Final Notu

Final Ağırlığı: %60

**Vize ve Final notuna 0 ile 100 arası değer giriniz!**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	A+	Mükemmel	80-100

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📋 Lorem Ipsum i...

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### Metin Uzunluğu Hesaplama

Bir şeyler yazın...

popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Girilen metnin uzunluğu = 574

### Vize ve Final Harf Notu Hesaplama

Vize Notu

40

Vize Ağırlığı: %40

Final Notu

90

Final Ağırlığı: %60

Toplam Puan = 70

**Harf = BB**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	AA	Mükemmel	90-100

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### Metin Uzunluđu Hesaplama

Bir Őeyler yazın...

popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Girilen metnin uzunluđu = 574

### Vize ve Final Harf Notu Hesaplama

Vize Notu

405

Vize Ađırlıđı: %40

Final Notu

90

Final Ađırlıđı: %60

**Vize ve Final notuna 0 ile 100 arası deđer giriniz!**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	AA	Mükemmel	90-100
3.50	BA	Çok İyi	80-89
3.00	BB	İyi	70-79

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### Metin Uzunluđu Hesaplama

Bir Őeyler yazın...

popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

Girilen metnin uzunluđu = 574

### Vize ve Final Harf Notu Hesaplama

Vize Notu

100

Vize Ađırlıđı: %40

Final Notu

80

Final Ađırlıđı: %60

Toplam Puan = 88

**Harf = BA**

Başarı Notu	Harf Notu	Anlamı	Aralık
4.00	AA	Mükemmel	90-100
3.50	BA	Çok İyi	80-89
3.00	BB	İyi	70-79
2.50	CB	Orta	65-69
2.00	CC	Yeterli	60-64
1.50	DC	Koşullu Başarılı	55-59
1.00	DD	Koşullu Başarılı	50-54
0.00	FF	Başarısız	0-49