# Tugas 1
# Pengenalan Bahasa Pemrograman Kotlin

Praktikum Pemrograman Mobile

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Kelas A

**Bagian 1**

Code

```kotlin
fun main(args: Array<String>) {
    val panjang = 4
    val lebar = 2

    val persegiPanjang = PersegiPanjang(panjang, lebar)
    println("Panjang: $panjang")
    println("Lebar: $lebar")
    println("Luas: ${persegiPanjang.hitungLuas()}")
    println("Keliling: ${persegiPanjang.hitungKeliling()}")
}

class PersegiPanjang(private val panjang: Int, private val lebar: Int) {
    fun hitungLuas(): Int {
        return panjang * lebar
    }

    fun hitungKeliling(): Int {
        return 2 * (panjang + lebar)
    }
}
```

Hasil Run

```
Panjang: 4
Lebar: 2
Luas: 8
Keliling: 12
```

**Bagian 2**

Code

```kotlin
fun main() {
    val nilaiList = listOf(77, 110, 25)

    for (nilai in nilaiList) {
        val indeksNilai = IndeksNilaiMatkul(nilai)
        val hasil = indeksNilai.getIndeks()
        println("Nilai: $nilai -> Indeks: $hasil")
    }
}

class IndeksNilaiMatkul(private val nilai: Int) {
    fun getIndeks(): String {
        return when {
            nilai in 80..100 -> "A"
            nilai in 70..79 -> "AB"
            nilai in 60..69 -> "B"
            nilai in 50..59 -> "BC"
            nilai in 40..49 -> "C"
            nilai in 30..39 -> "D"
            nilai in 0..29 -> "E"
            else -> "Nilai di luar jangkauan"
        }
    }
}
```

Hasil Run

```
Nilai: 77 -> Indeks: AB
Nilai: 110 -> Indeks: Nilai di luar jangkauan
Nilai: 25 -> Indeks: E
```