





TUGAS INDIVIDU KOTLIN

RASYID RAMADHANI MOBILE MORNING

APRIL 2023

Sesi Kelas: Morning

Program : Android Mobile Dev

KOTLIN FUNDAMENTAL

```
1.
                          Data Types
Code
                          val secondWord = "Learning"
println("$firstWord $secondWord") //--> Infinite Learning
                        var x = true

var y = false
                        println("x \& \& y = " + (\underline{x} \& \underline{y}) // -->  false println("x || y = " + (\underline{x} || \underline{y}) // -->  true println("!y = " + (\underline{!y}) // -->  true
                         val a: Int = 50
val b: Int = 25
println("a > b = " + (a > b))
println("a < b = " + (a < b))
println("a >= b = " + (a >= b))
println("a <= b = " + (a <= b))</pre>
```

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```
println("a >= b = " + (a >= b))
println("a <= b = " + (a <= b))
println("a == b = " + (a == b))
println("a != b = " + (a != b))</pre>
          Output
```

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```
Grade B
```

Sesi Kelas: Morning

3.

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If Expressions

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```
Code

Created by Rasyid Ramadhani [20184899] - 03/04/2023

Lelkom Institute of Technology Purwokerto
SIBH4 Infinite Learning_Morning_Android Mobile Dev

// bfun main() {
// val text: String = null // Null can not be a value of a non-null type String [ERROR]
val text: String? = null
// [SUCCESS]

val texts: String? = null
if(texts != null) {
    println(texts.length)
}

Output

Process finished with exit code 0
```

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```
Created by Rasyid Ramadhani [20104099] - 03/04/2023

Telkom Institute of Technology Purwokerto

SiB#4 Infinite Learning_Morning_Android Mobile Dev

All company = "Infinite Learning"

// print("We are studying in " + $company)

print("We are studying in $company")

val score = 80

print("Results: ${ if(score >= 80) "You win!" else "Please try again!" }")

Output

We are studying in Infinite LearningResults: You win!

Process finished with exit code 0
```

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Program : Android Mobile Dev

KOTLIN CONTROL FLOW

2. When Expressions

Code

```
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SIB#4 Infinite Learning_Morning_Android Mobile Dev

At Infinite Learning_Morning_Android
```

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Program : Android Mobile Dev

```
Output

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]Step: 1

Menggunakan rangeTo() :
Step: 1

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
Menggunakan step :
Step: 2

[1, 3, 5, 7, 9]
Menggunakan rangeTo() :
Value 4 available in Range

Menggunakan downTo() :

Process finished with exit code 0
```

4. Looping For

Code

Output

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```
For untuk Range Expressions
Value is 4
Value is 8
Value is 9
Value is 16
Wednesday
value Tuesday with index 1
value Saturday with index 5
Day is Thursday
```

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```
Looping While
   5.
Code
Output
For dengan While Do
```

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```
6.
        Break
Code
Output
```

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Program : Android Mobile Dev

7. **Continue** Code **Output** Example 1 12457 Example 2 Print odd numbers 1 is an odd number 19 is an odd number

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Program : Android Mobile Dev

KOTLIN COLLECTION

Sesi Kelas: Morning

```
2.
                                     Set
Code
                          n main() {
    // setOf(), Check value exist in set
    val setA = setOf<Int>(1, 2, 4, 2, 1, 5)
    val setB = setOf<Int>(1, 2, 4, 5)
    val setC = setOf<Int>(1, 3, 2, 4)
    val setD = setOf<Int>(1, 3, 2, 4, 4, 1, 2)
    println(setA == setB) // true
                     val hasil2 = setC == setB
println(hasil2)
                           val list1 = list0f(1, 1, 2,3, 5, 8, -1)
val list2 = set0f(1, 1, 2, 2,3, 5)
val list3 = mutableSet0f(6, 7)
Output
    Process finished with exit code 0
```

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