Nama : Fitrianinda Nur Shafira

Kelas : XI RPL 3

No absen : 13

MODUL 2 KOTLIN

PRAKTIK

1.

2. Kode Program Praktik 1

3. Hasil Kode Program Praktik 1

```
Run: Praktik1Kt ×

"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...

Akar 16 adalah: 4.0

Nilai terbesar dari 12 dan 15 adalah: 15

4 pangkat 3 = 64.0

Process finished with exit code 0
```

4. Kode Program Praktik 2

```
praktik1.kt × praktik2.kt ×

//Created the function

fun jumlah(bilangan2: Array<Int>): Int{
    var jml = 0
    for(bil in bilangan2){
        jml += bil
    }

    return jml

    Pofun main(args : Array<String>){
        val arrBil = arrayOf(10,20,30,50)
        println("Jumlah bilangan: ${jumlah(arrBil)}")
```

```
Praktik2Kt ×

"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...

Jumlah bilangan: 110

Process finished with exit code 0
```

Run

```
Run: Praktik2Kt ×

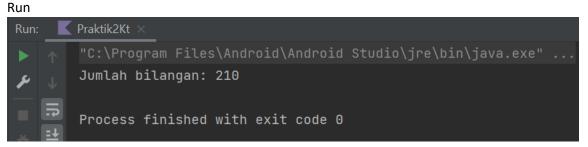
"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...

Jumlah bilangan: 100

Process finished with exit code 0
```

_

6.



7. Kode Program Praktik 3



```
praktik1.kt × praktik2.kt ×

praktik3.kt ×

fun main(args : Array<String>){

val perkalian = {bil1: Int, bil2: Int, bil3: Int -> bil1 * bil2 * bil3}

println("6 x 4 x 5 = ${perkalian(6,4,5)}")
```

8.



9. Kode Program Praktik 4

```
praktik1.kt × praktik2.kt × praktik3.kt ×

i praktik1.kt × praktik2.kt × praktik3.kt ×

fun main(){

val upperCase1: (String) -> String = {str: String -> str.toUpperCase()}

val upperCase2: (String) -> String = {str -> str.toUpperCase()}

val upperCase3 = {str: String -> str.toUpperCase()}

val upperCase4: (String) -> String = {it.toUpperCase()}

val upperCase5: (String) -> String = String::toUpperCase

println(upperCase1("Hello"))

println(upperCase2("Hello"))

println(upperCase3("Hello"))

println(upperCase4("Hello"))

println(upperCase5("Hello"))

println(upperCase5("Hello"))
```

```
Run: Praktik4Kt ×

"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...

HELLO

HELLO

HELLO

HELLO

Process finished with exit code 0
```

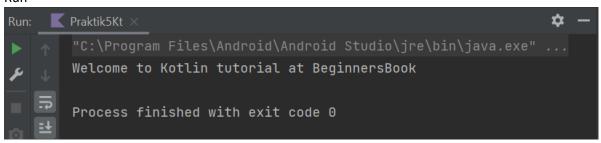
```
praktik1.kt × praktik2.kt × praktik3.kt × praktik4.kt ×

fun main(args : Array<String>){
    func(str: "BeginnersBook", ::demo)

func(str: String, myfunc: (String) -> Unit){
    print("Welcome to Kotlin tutorial at ")
    myfunc(str)

fun demo(str: String){
    println(str)
```

Run

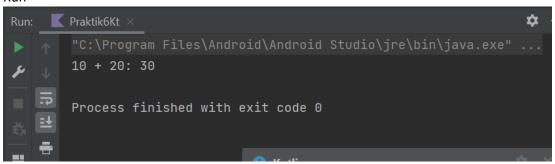


11. Kode Program Praktik 6

```
kt × praktik2.kt × praktik3.kt × praktik4.kt × praktik5.kt ×

fun main(args: Array<String>){
    val sum = func(num: 10)
    println("10 + 20: ${sum(20)}")

fun func(num: Int): (Int) -> Int = {num2 -> num2 + num}
```



```
kt × praktik3.kt × praktik4.kt × praktik5.kt × praktik6.kt ×

1 fun main(args: Array<String>){

2 //creating the object of class Student

3 val mhs = Mahasiswa(nama: "Susi Susanti", umur: 23)

4 println("Nama: ${mhs.nama}")

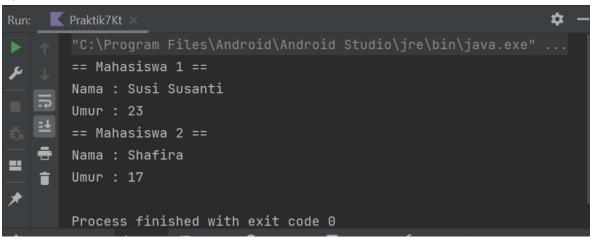
5 println("Umur: ${mhs.umur}")

6 }

8 Class Mahasiswa(val nama: String, var umur: Int) {

9 //This is my class. For now I am leaving it empty

10 }
```



```
kt × praktik3.kt × praktik4.kt × praktik5.kt × praktik6.kt ×

fun main(args: Array<String>){

val mhs3 = Mahasiswa3()

println("Nama : ${mhs3.nama}")

println("Umur : ${mhs3.umur}")

class Mahasiswa3(val nama: String="Shafira", var umur: Int=17){

//This is my class. For now I am leaving it empty

//This is my class. For now I am leaving it empty
```

Run



```
praktik1.kt × praktik2.kt × praktik3.kt × praktik4.kt × praktik5.kt × praktik6.kt ×

praktik1.kt × praktik2.kt × praktik3.kt × praktik4.kt × praktik5.kt × praktik6.kt ×

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```



```
kt × praktik5.kt × praktik6.kt × praktik7.kt × praktik8.kt ×

data class Mahasiswa(val nama: String, val umur: Int A 1 1 13 ^ val mhs = Mahasiswa(nama: "Fitri", umur: 16)

val mhs = Mahasiswa(nama: "Shafira", umur: 17)

println("Nama Mahasiswa: ${mhs.nama}")

println("Umur Mahasiswa: ${mhs.umur}")

println("Nama Mahasiswa: ${mhs1.nama}")

println("Umur Mahasiswa: ${mhs1.nama}")

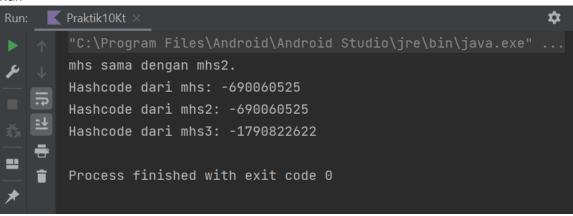
println("Umur Mahasiswa: ${mhs1.nama}")

println("Umur Mahasiswa: ${mhs1.nama}")

println("Umur Mahasiswa: ${mhs1.umur}")
```



```
\bigoplus praktik1.kt 	imes
             the praktik2.kt × the praktik3.kt × the praktik4.kt × the praktik5.kt
      data class Mahasiswa(val nama: String, val umur: Int)
     val mhs = Mahasiswa( nama: "Shafira", umur: 17)
          val mhs2 = Mahasiswa( nama: "Shafira", umur: 17)
          val mhs3 = Mahasiswa( nama: "Marsha", umur: 16)
          if(mhs.equals(mhs2) == true)
              println("mhs sama dengan mhs2.")
          else
              println("mhs tidak sama dengan mhs2.")
          if(mhs.equals(mhs3) == true)
              println("mhs tidak sama dengan mhs3.")
          println("Hashcode dari mhs: ${mhs.hashCode()}")
          println("Hashcode dari mhs2: ${mhs2.hashCode()}")
          println("Hashcode dari mhs3: ${mhs3.hashCode()}")
```



```
x praktik7.kt x praktik8.kt x praktik9.kt x praktik10.kt x

data class Mahasiswa(val nama: String, val umur: Int 1 12 ^ v

fun main(args: Array<String>){
   val mhs = Mahasiswa( nama: "Susi Susanti", umur: 23)

//mengkopi umur dari objek mhs
   val mhs2 = mhs.copy(nama = "Lusiana")

println("Nama ${mhs.nama}, Umur ${mhs.umur}")

println("Nama ${mhs2.nama}, Umur ${mhs2.umur}")

println("Nama ${mhs2
```



```
praktik7.kt × praktik8.kt × praktik9.kt × praktik10.kt × praktik11.kt × v

data class Mahasiswa(val nama: String, val umur: Int A 1 × 16 ^ v

bfun main(args: Array<String>){
    val mhs = Mahasiswa( nama: "Susi Susanti", umur: 23)

    //mengkopi umur dari objek mhs
    val mhs2 = mhs.copy(nama = "Lusiana")

    println("Nama ${mhs.nama}, Umur ${mhs.umur}")
    println("Nama ${mhs2.nama}, Umur ${mhs2.umur}")

    val nama = mhs.component1()
    val umur = mhs.component2()
    println("Nama $nama, Umur $umur")
```



LATIHAN

```
praktik2.kt × praktik3.kt × latihan1.kt ×

praktik5.kt × praktik6.kt × praktik7.kt ×

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```

Run

1.

```
Run: Latihan1Kt ×

"C:\Program Files\Android\Android Studio\jre\bin\java.exe" ...
6 pangkat 3 = 216.0

Process finished with exit code 0
```

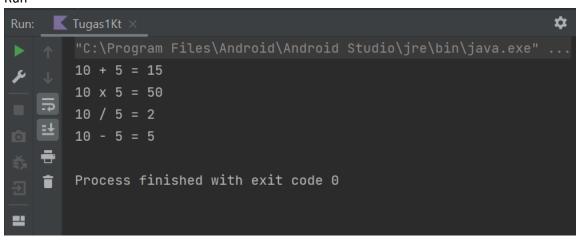
```
# praktik2.kt × # praktik3.kt × # latihan1.kt × # praktik6.kt × # praktik7.kt × # praktik8.kt × # praktik9.kt × # praktik10.kt × # praktik10.k
```

Run

TUGAS

```
# praktik2.kt ×
              🐈 praktik3.kt 🗡
                            latihan1.kt × 🗼 latihan2.kt ×
                                                      tugas1.kt ×
                                                                   praktik7.kt
       val penjumlahan = {bil1: Int, bil2: Int -> bil1 + bil2 }
             println("10 + 5 = ${jumlah( ...bil2: 10,5)}")
       fun perkalian(){
             val perkalian = {bil1: Int, bil2: Int -> bil1 * bil2 }
             println("10 \times 5 = \{perkalian(10,5)\}")
       fun pembagian(){
             val pembagian = {bil1: Int, bil2: Int -> bil1 / bil2 }
             println("10 / 5 = ${pembagian(10,5)}")
         Н
14
       to fun pengurangan(){
             val pengurangan = {bil1: Int, bil2: Int -> bil1 - bil2 }
             println("10 - 5 = ${pengurangan(10,5)}")
       tofun main(){
             penjumlahan()
             perkalian()
             pembagian()
             pengurangan()
```

Run



```
praktik2.kt ×
             🙀 praktik3.kt × 🙀 latihan1.kt ×
                                        提 latihan2.kt 🗡
                                                      tugas1.kt × tugas2.kt
       import java.util.Scanner
     ⊟fun main(){
           val input = Scanner(System.`in`)
           println("Menghitung Keliling dan Luas Persegi Panjang")
           println("Masukkan panjang = ")
           val panjang = input.nextInt()
           println("Masukkan lebar = ")
           val lebar = input.nextInt()
           val keliling = 2 * (panjang + lebar)
           val luas = panjang * lebar
           println("Keliling dari persegi panjang adalah = $keliling")
           println("Luas dari persegi panjang adalah = $luas")
```