

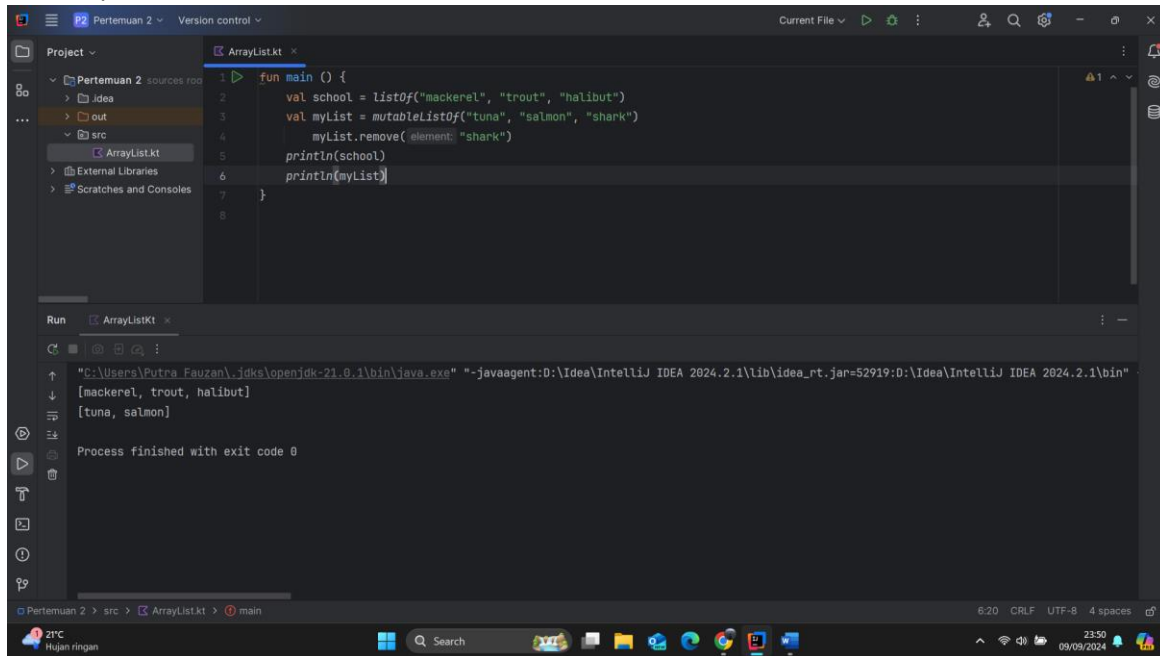
Tugas Pertemuan 2

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Modul 1

Menampilkan list data:



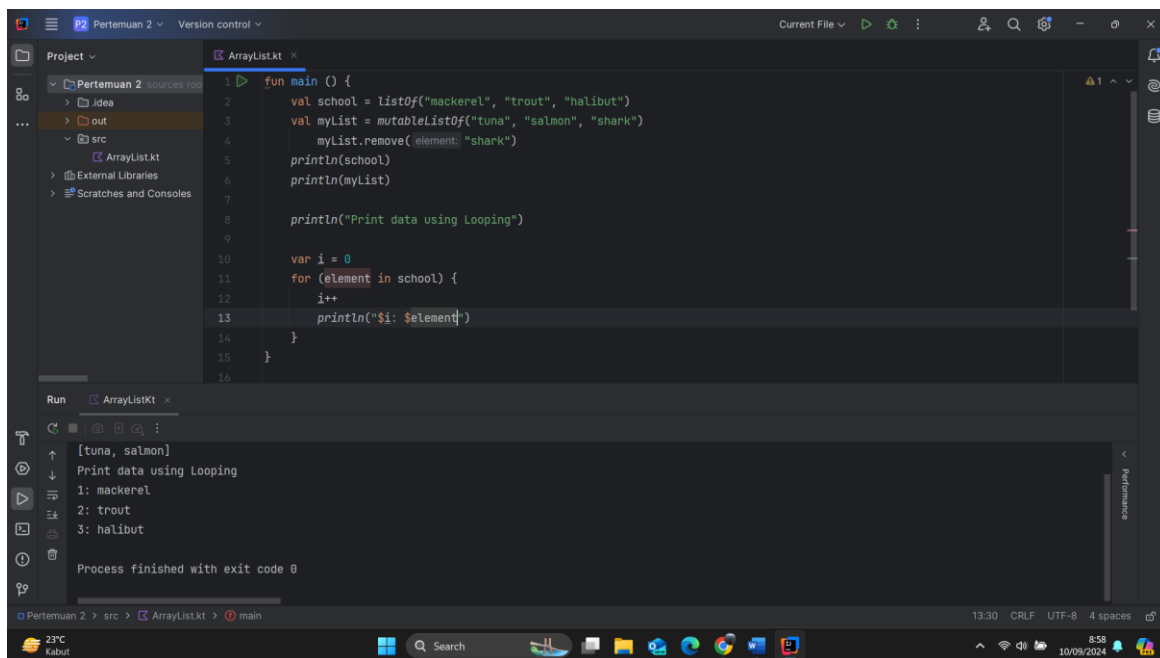
The screenshot shows the IntelliJ IDEA interface with a Kotlin file named `ArrayList.kt`. The code defines a `main` function that creates a list of fish names, removes one, and prints the remaining list. The Run window shows the output of the program.

```
1 fun main () {  
2     val school = listOf("mackerel", "trout", "halibut")  
3     val myList = mutableListOf("tuna", "salmon", "shark")  
4     myList.remove(element: "shark")  
5     println(school)  
6     println(myList)  
7 }  
8
```

Run Console Output:

```
"C:\Users\Putra_Fauzan\AppData\Local\Temp\21.0.1\bin\java.exe" "-javaagent:D:\Idea\IntelliJ IDEA 2024.2.1\lib\idea_rt.jar=52919:D:\Idea\IntelliJ IDEA 2024.2.1\bin"  
[mackerel, trout, halibut]  
[tuna, salmon]  
Process finished with exit code 0
```

Menampilkan data menggunakan Looping :



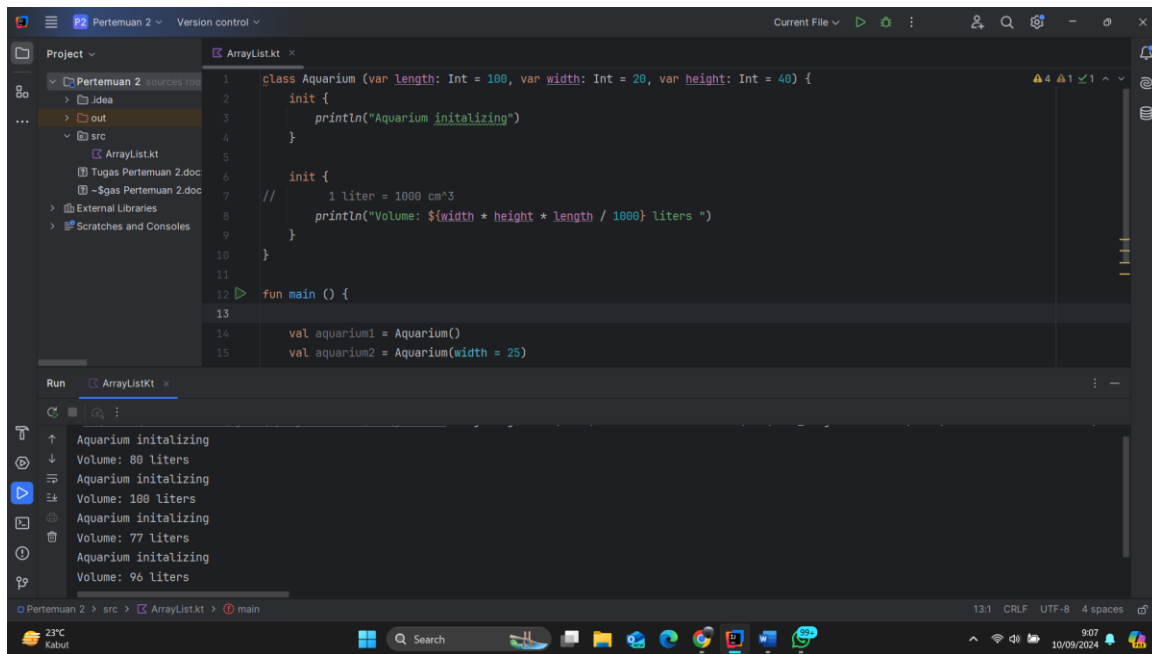
The screenshot shows the IntelliJ IDEA interface with a Kotlin file named `ArrayList.kt`. The code defines a `main` function that creates a list of fish names, removes one, and prints the remaining list using a loop. The Run window shows the output of the program.

```
1 fun main () {  
2     val school = listOf("mackerel", "trout", "halibut")  
3     val myList = mutableListOf("tuna", "salmon", "shark")  
4     myList.remove(element: "shark")  
5     println(school)  
6     println(myList)  
7  
8     println("Print data using Looping")  
9  
10    var i = 0  
11    for (element in school) {  
12        i++  
13        println("$i: $element")  
14    }  
15 }  
16
```

Run Console Output:

```
[tuna, salmon]  
Print data using Looping  
1: mackerel  
2: trout  
3: halibut  
Process finished with exit code 0
```

Menampilkan dengan init :

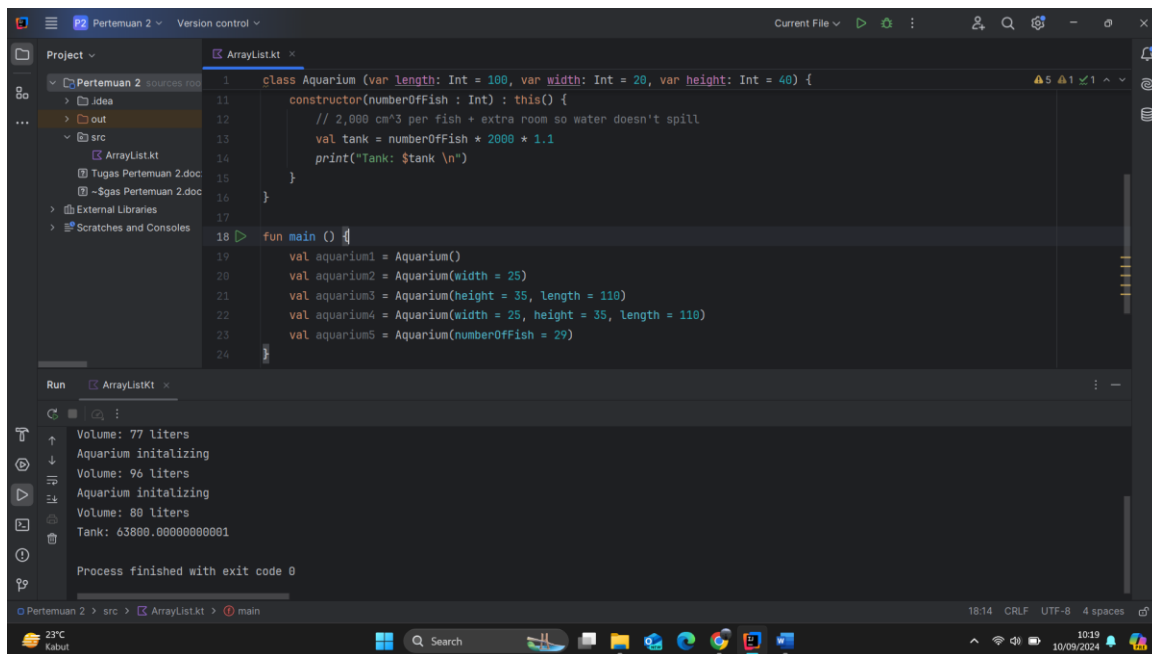


```
1 class Aquarium (var length: Int = 100, var width: Int = 20, var height: Int = 40) {
2     init {
3         println("Aquarium initializing")
4     }
5
6     init {
7         // 1 liter = 1000 cm^3
8         println("Volume: ${(width * height * length) / 1000} liters ")
9     }
10 }
11
12 fun main () {
13
14     val aquarium1 = Aquarium()
15     val aquarium2 = Aquarium(width = 25)
```

Run ArrayListKt

Aquarium initializing
Volume: 80 liters
Aquarium initializing
Volume: 100 liters
Aquarium initializing
Volume: 77 liters
Aquarium initializing
Volume: 96 liters

Menampilkan konstruktor dengan init :

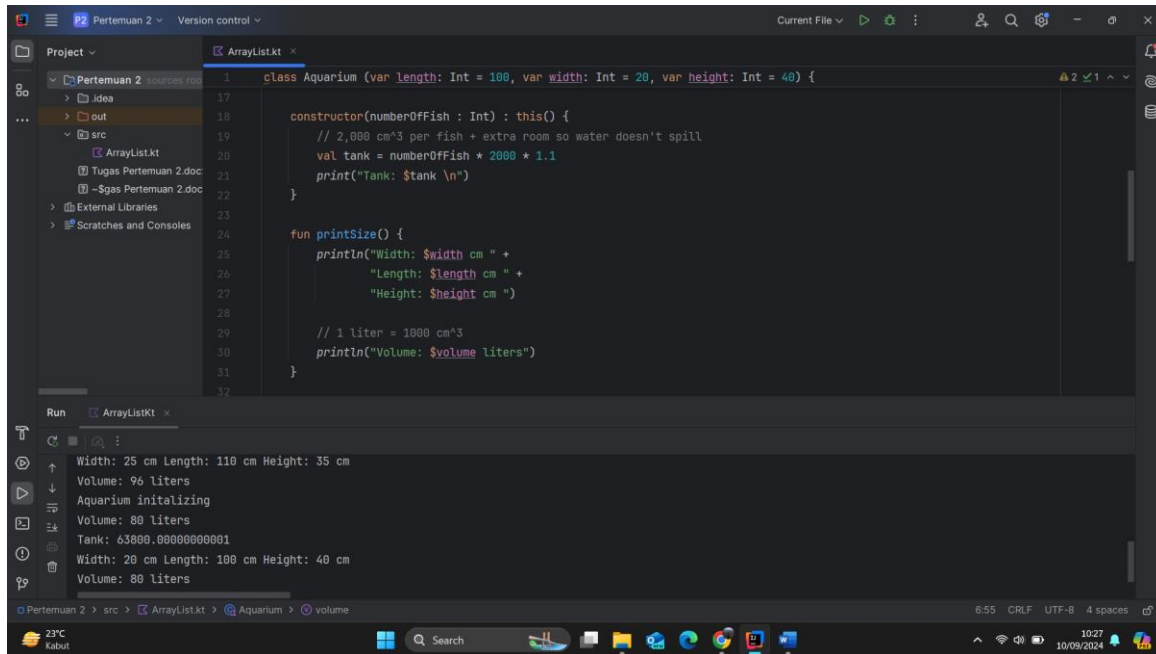


```
1 class Aquarium (var length: Int = 100, var width: Int = 20, var height: Int = 40) {
11     constructor(numberOfFish : Int) : this() {
12         // 2,000 cm^3 per fish + extra room so water doesn't spill
13         val tank = numberOfFish * 2000 * 1.1
14         print("Tank: $tank \n")
15     }
16 }
17
18 fun main () {
19     val aquarium1 = Aquarium()
20     val aquarium2 = Aquarium(width = 25)
21     val aquarium3 = Aquarium(height = 35, length = 110)
22     val aquarium4 = Aquarium(width = 25, height = 35, length = 110)
23     val aquarium5 = Aquarium(numberOfFish = 29)
24 }
```

Run ArrayListKt

Volume: 77 liters
Aquarium initializing
Volume: 96 liters
Aquarium initializing
Volume: 80 liters
Tank: 63800.00000000001
Process finished with exit code 0

Menampilkan getter setter :

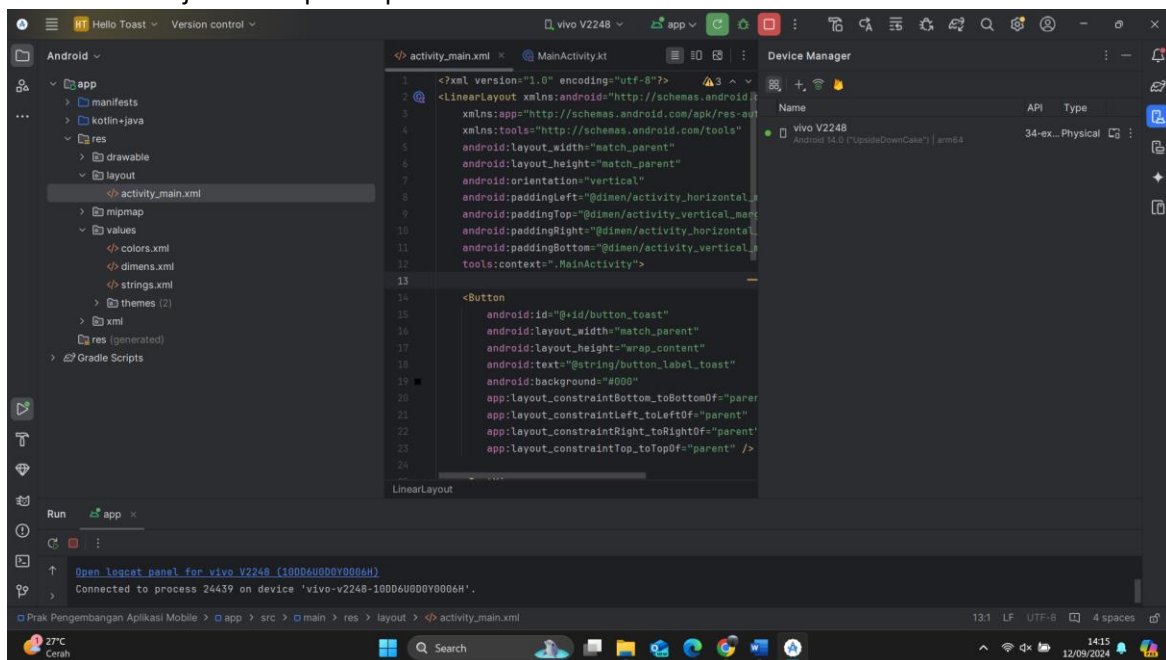


```
class Aquarium (var length: Int = 100, var width: Int = 20, var height: Int = 40) {  
    constructor(numberOfFish : Int) : this() {  
        // 2,000 cm^3 per fish + extra room so water doesn't spill  
        val tank = numberOfFish * 2000 * 1.1  
        print("Tank: $tank \n")  
    }  
  
    fun printSize() {  
        println("Width: $width cm " +  
            "Length: $length cm " +  
            "Height: $height cm ")  
  
        // 1 liter = 1000 cm^3  
        println("Volume: $volume liters")  
    }  
}
```

Run

Width: 25 cm Length: 110 cm Height: 35 cm
Volume: 96 liters
Aquarium initializing
Volume: 80 liters
Tank: 63800.00000000001
Width: 20 cm Length: 100 cm Height: 40 cm
Volume: 80 liters

Modul 2 : Menjalankan aplikasi pada device

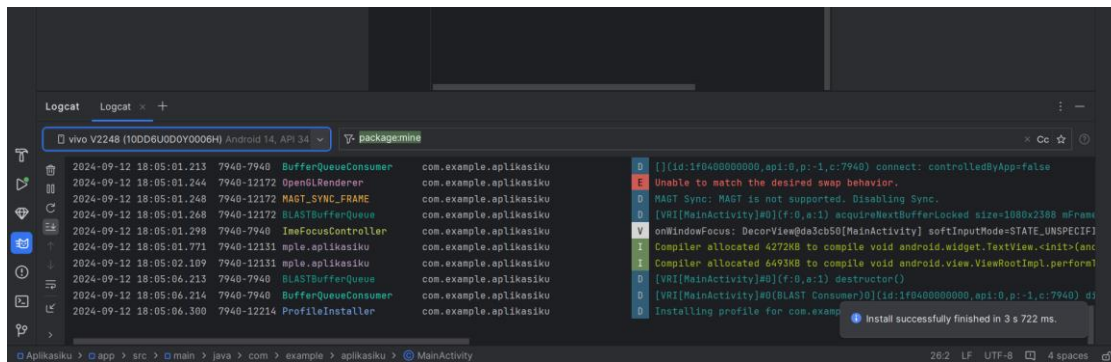


```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res-  
xmlns:app="http://schemas.android.com/apk/res-ev  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
android:orientation="vertical"  
android:paddingLeft="@dimen/activity_horizontal_  
android:paddingTop="@dimen/activity_vertical_marg  
android:paddingRight="@dimen/activity_horizontal_  
android:paddingBottom="@dimen/activity_vertical_  
tools:context=".MainActivity">  
  
    <Button  
        android:id="@+id/button_toast"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:text="@string/button_label_toast"  
        android:background="#0000"  
        app:layout_constraintBottom_toBottomOf="par  
        app:layout_constraintLeft_toLeftOf="parent"  
        app:layout_constraintRight_toRightOf="parent"  
        app:layout_constraintTop_toTopOf="parent" />  
</Button>  
</LinearLayout>
```

Run

Open logcat panel for vivo V2248 (10004U000Y0006H)
Connected to process 24439 on device "vivo-v2248-10006U000Y0006H".

Menampilkan LogCat :



Modul 5 :

