

# LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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Kelas : R1

Nim : 210511023

Praktikum 4

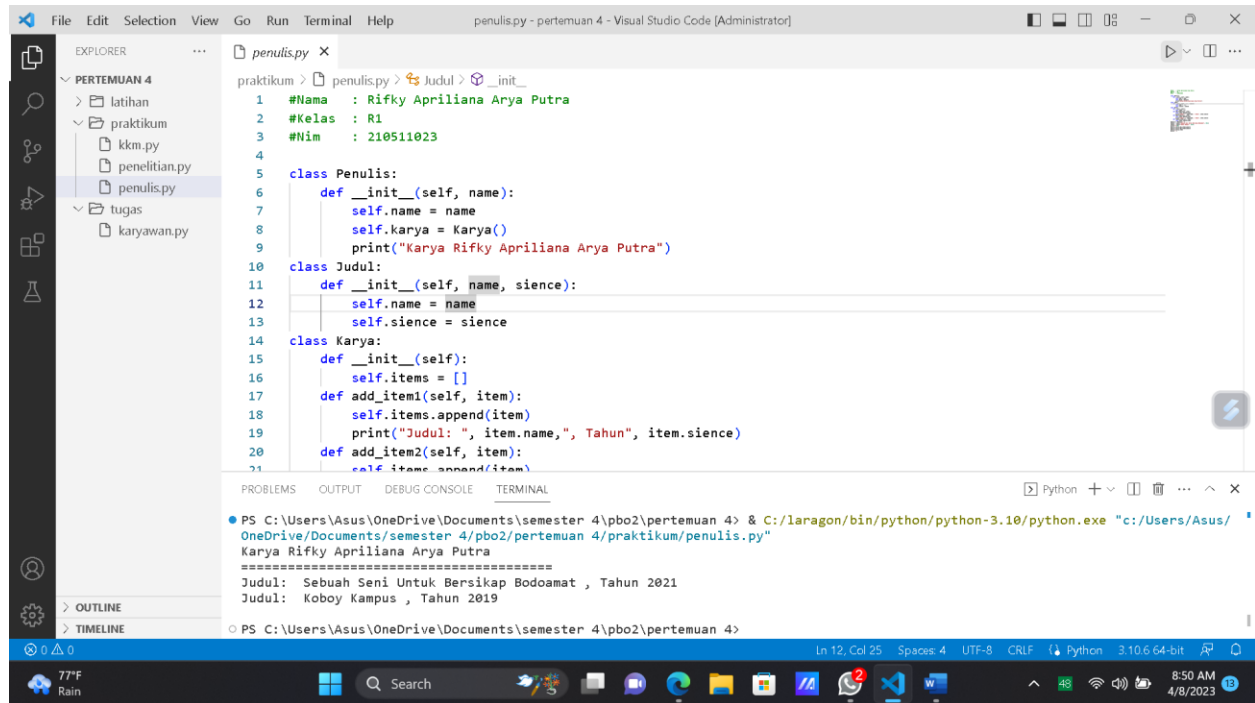
Contoh 1: Composition Peneliti Dan Jurnal

Script:

```
#Nama : Rifky Apriliana Arya Putra
#Kelas : R1
#Nim : 210511023

class Penulis:
    def __init__(self, name):
        self.name = name
        self.karya = Karya()
        print("Karya Rifky Apriliana Arya Putra")
class Judul:
    def __init__(self, name, sience):
        self.name = name
        self.sience = sience
class Karya:
    def __init__(self):
        self.items = []
    def add_item1(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)
    def add_item2(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)
    def remove_item(self, item):
        self.items.remove(item)
penulis = Penulis(" ")
judul1 = Judul("Sebuah Seni Untuk Bersikap Bodoamat", 2021)
judul2 = Judul("Koboy Kampus", 2019)
print("="*40)
penulis.karya.add_item1(judul1)
penulis.karya.add_item2(judul2)
penulis.karya.items
print(" ")
```

script hasil running program:



## Contoh 2: Composition Mahasiswa Dan kelompok KKM

```

#Nama : Rifky Aprilliana Arya Putra
#Kelas : R1
#Nim : 210511023

```

```

class Mahasiswa:
    def __init__(self, name):
        self.name = name
        self.anggota = Anggota()
        print("Daftar Nama Mahasiswa Kelompok KKM")

class Kelompok_KKM:
    def __init__(self, name):
        self.name = name

class Anggota:
    def __init__(self):
        self.items = []
    def add_item1(self, item):
        self.items.append(item)
        print("Kelompok 1: ", item.name)
    def add_item2(self, item):
        self.items.append(item)
        print("Kelompok 2: ", item.name)
    def remove_item(self, item):
        self.items.remove(item)

mahasiswa = Mahasiswa(" ")

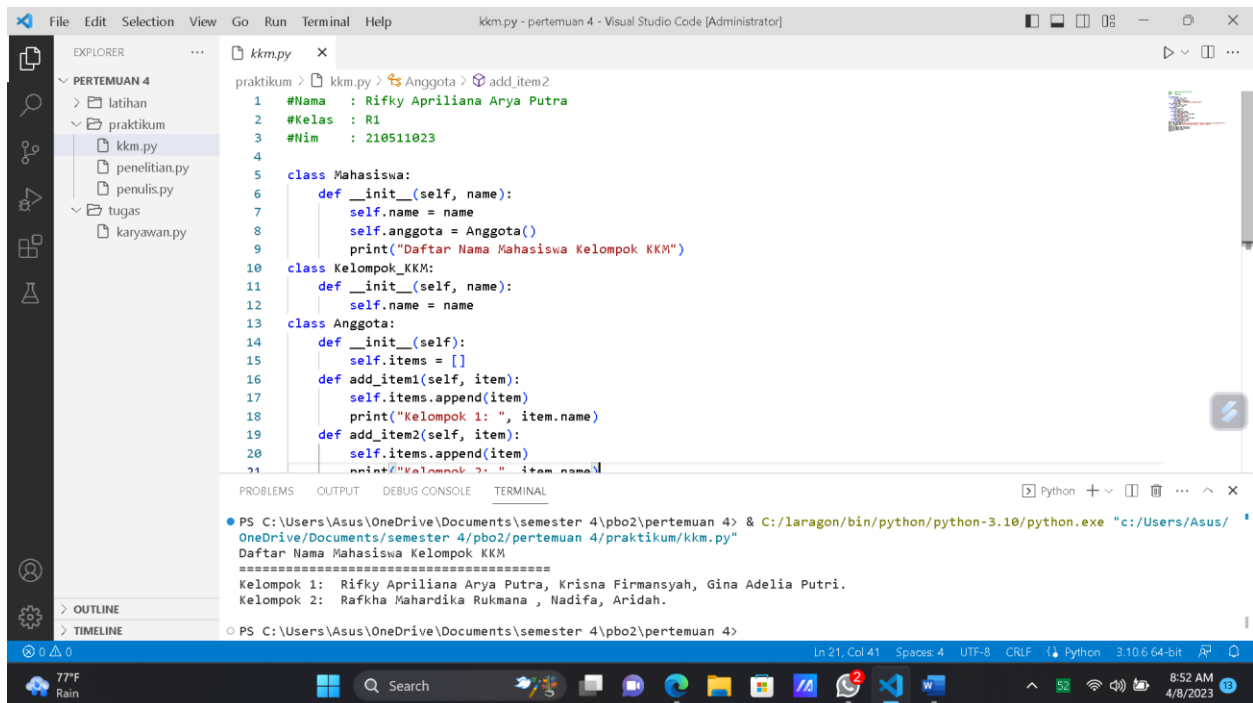
```

```

kel1 = Kelompok_KKM("Rifky Apriliana Arya Putra, Krisna Firmansyah, Gina Adelia Putri.")
kel2 = Kelompok_KKM("Rafkha Mahardika Rukmana , Nadifa, Aridah.")
print("="*40)
mahasiswa.anggota.add_item1(kel1)
mahasiswa.anggota.add_item2(kel2)
mahasiswa.anggota.items
print(" ")

```

contoh hasil running program:



The screenshot shows a Visual Studio Code window with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The file explorer shows a project named 'PERTEMUAN 4' with subfolders 'latihan', 'praktikum', 'penelitian.py', 'penulis.py', 'tugas', and 'karyawan.py'. The code editor shows a file named 'kkm.py' with the following code:

```

praktikum > kkm.py > Anggota > add_item2
1 #Nama : Rifky Apriliana Arya Putra
2 #Kelas : R1
3 #Nim : 210511023
4
5 class Mahasiswa:
6     def __init__(self, name):
7         self.name = name
8         self.anggota = Anggota()
9         print("Daftar Nama Mahasiswa Kelompok KKM")
10
11 class Kelompok_KKM:
12     def __init__(self, name):
13         self.name = name
14
15 class Anggota:
16     def __init__(self):
17         self.items = []
18     def add_item1(self, item):
19         self.items.append(item)
20     def add_item2(self, item):
21         self.items.append(item)
22     def print_item(self):
23         print("Kelompok 1: ", item.name)
24         print("Kelompok 2: ", item.name)

```

The terminal output shows the execution of the script:

```

PS C:\Users\Asus\OneDrive\Documents\semester 4\pbo2\pertemuan 4> & C:\laragon\bin\python\python-3.10\python.exe "c:/Users/Asus/OneDrive/Documents/semester 4/pbo2/pertemuan 4/praktikum/kkm.py"
Daftar Nama Mahasiswa Kelompok KKM
=====
Kelompok 1: Rifky Apriliana Arya Putra, Krisna Firmansyah, Gina Adelia Putri.
Kelompok 2: Rafkha Mahardika Rukmana , Nadifa, Aridah.

```

Composition Penulis Dan Buku

script

```

#Nama : Rifky Apriliana Arya Putra
#Kelas : R1
#Nim : 210511023

```

```

class Penulis:
    def __init__(self, name):
        self.name = name
        self.karya = Karya()
        print("Karya Rifky Apriliana Arya Putra")
class Judul:
    def __init__(self, name, sience):

```

```

        self.name = name
        self.sience = sience
class Karya:
    def __init__(self):
        self.items = []
    def add_item1(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)
    def add_item2(self, item):
        self.items.append(item)
        print("Judul: ", item.name, ", Tahun", item.sience)
    def remove_item(self, item):
        self.items.remove(item)
penulis = Penulis(" ")
judul1 = Judul("Sebuah Seni Untuk Bersikap Bodoamat", 2021)
judul2 = Judul("Koboy Kampus", 2019)
print("="*40)
penulis.karya.add_item1(judul1)
penulis.karya.add_item2(judul2)
penulis.karya.items
print(" ")

```

hasil running program:

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project structure under 'PERTEMUAN 4'. The main editor window shows the code for 'penulis.py', which defines three classes: 'Penulis', 'Judul', and 'Karya'. The 'Penulis' class has an 'add\_item' method that uses the 'Karya' class. The 'Judul' class has attributes for 'name' and 'sience'. The 'Karya' class has a list 'items' and methods 'add\_item1', 'add\_item2', and 'remove\_item'. The script creates a 'Penulis' object, two 'Judul' objects, and adds them to the 'Karya' object. The terminal output shows the execution of the script, displaying the name of the author and the details of the two items added to the 'Karya' object.

```

1 #Nama : Rifky Aprilliana Arya Putra
2 #Kelas : R1
3 #Nim : 210511023
4
5 class Penulis:
6     def __init__(self, name):
7         self.name = name
8         self.karya = Karya()
9         print("Karya Rifky Aprilliana Arya Putra")
10
11 class Judul:
12     def __init__(self, name, sience):
13         self.name = name
14         self.sience = sience
15
16 class Karya:
17     def __init__(self):
18         self.items = []
19     def add_item1(self, item):
20         self.items.append(item)
21         print("Judul: ", item.name, ", Tahun", item.sience)
22     def add_item2(self, item):
23         self.items.append(item)
24         print("Judul: ", item.name, ", Tahun", item.sience)
25     def remove_item(self, item):
26         self.items.remove(item)
27
28 penulis = Penulis(" ")
29 judul1 = Judul("Sebuah Seni Untuk Bersikap Bodoamat", 2021)
30 judul2 = Judul("Koboy Kampus", 2019)
31 print("="*40)
32 penulis.karya.add_item1(judul1)
33 penulis.karya.add_item2(judul2)
34 penulis.karya.items
35 print(" ")

```

```

PS C:\Users\Asus\OneDrive\Documents\semester 4\pbo2\pertemuan 4> & C:\laragon\bin\python\python-3.10\python.exe "c:/Users/Asus/OneDrive/Documents/semester 4/pbo2/pertemuan 4/praktikum/penulis.py"
Karya Rifky Aprilliana Arya Putra
=====
Judul: Sebuah Seni Untuk Bersikap Bodoamat , Tahun 2021
Judul: Koboy Kampus , Tahun 2019

```