Nama: Rifki Fadilah

Kelas: R1

NIM: 210511011

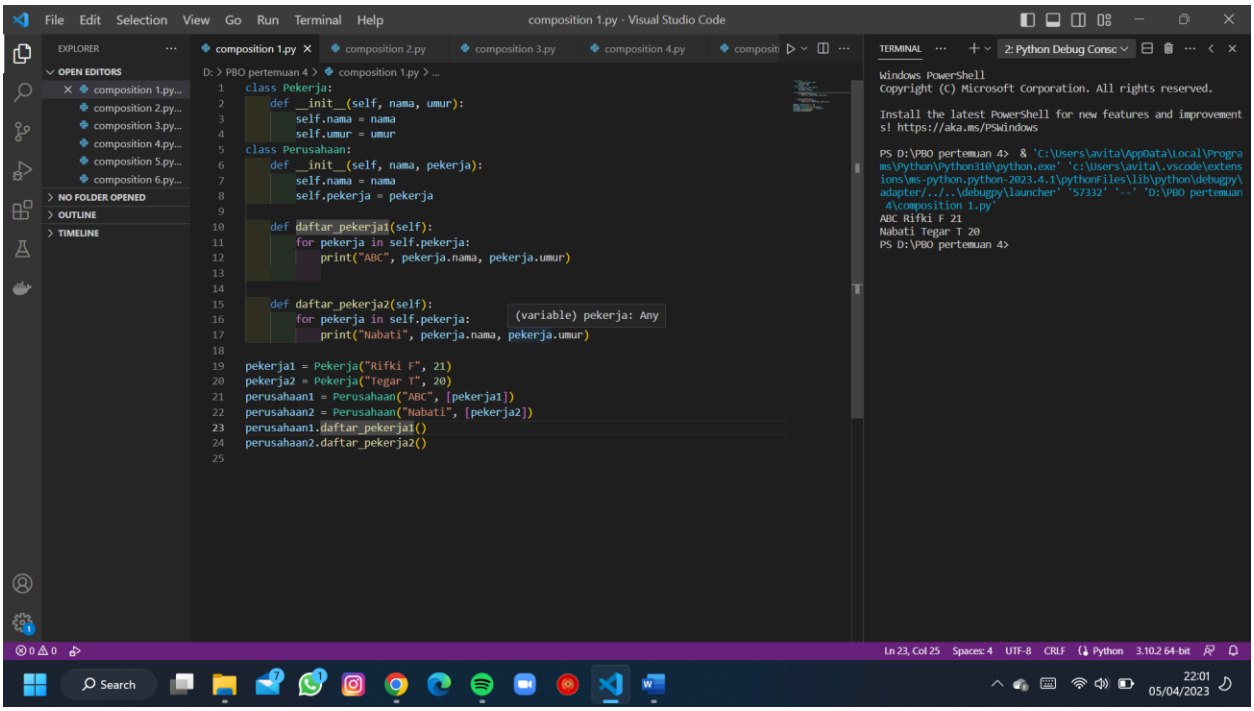
PBO2 Latihan 4

## Contoh 1

**Script:**

```
class Pekerja:
    def __init__(self, nama, umur):
        self.nama = nama
        self.umur = umur
class Perusahaan:
    def __init__(self, nama, pekerja):
        self.nama = nama
        self.pekerja = pekerja

    def daftar_pekerja1(self):
        for pekerja in self.pekerja:
            print("ABC", pekerja.nama, pekerja.umur)


    def daftar_pekerja2(self):
        for pekerja in self.pekerja:
            print("Nabati", pekerja.nama, pekerja.umur)

pekerja1 = Pekerja("Rifki F", 21)
pekerja2 = Pekerja("Tegar T", 20)
perusahaan1 = Perusahaan("ABC", [pekerja1])
perusahaan2 = Perusahaan("Nabati", [pekerja2])
perusahaan1.daftar_pekerja1()
perusahaan2.daftar_pekerja2()
```

**Hasil Running Program**

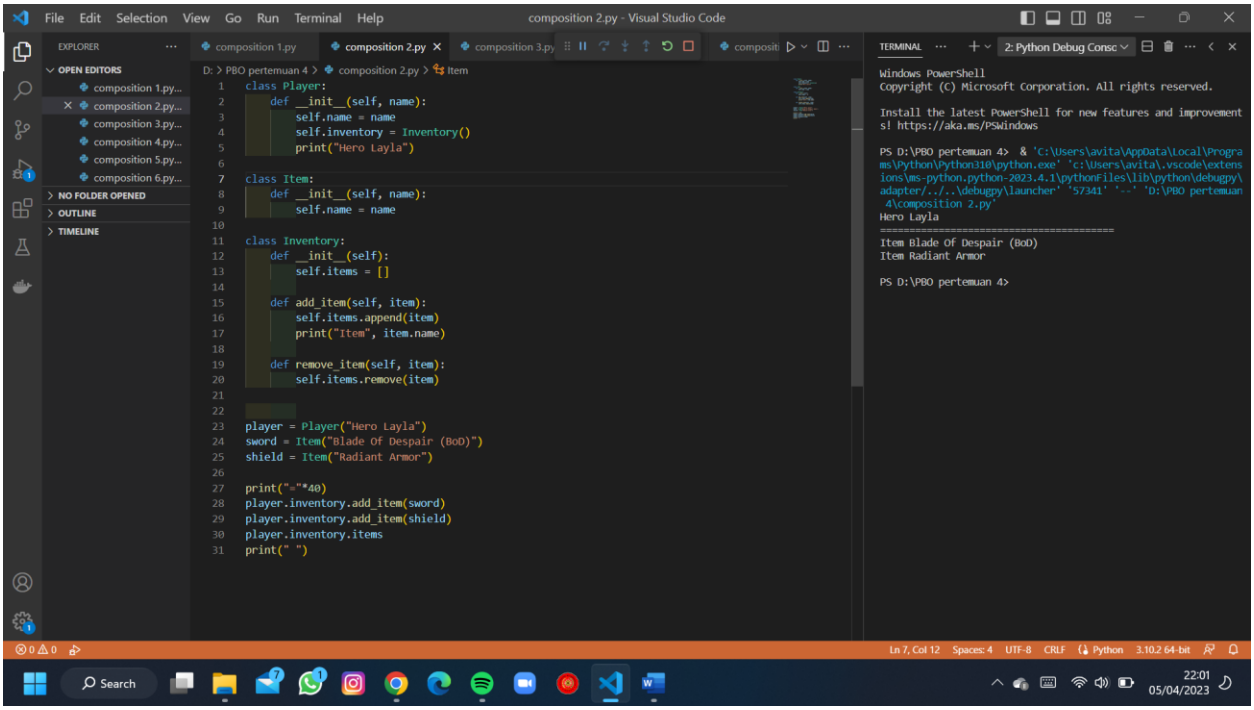

File Edit Selection View Go Run Terminal Help
composition 1.py - Visual Studio Code
EXPLORER
OPEN EDITORS
composition 1.py...
composition 2.py...
composition 3.py...
composition 4.py...
composition 5.py...
composition 6.py...
NO FOLDER OPENED
OUTLINE
TIMELINE
composition 1.py
composition 2.py
composition 3.py
composition 4.py
D: > PBO pertemuan 4 > composition 1.py > ...
class Pekerja:
def __init__(self, nama, umur):
self.nama = nama
self.umur = umur
class Perusahaan:
def __init__(self, nama, pekerja):
self.nama = nama
self.pekerja = pekerja
def daftar_pekerja1(self):
for pekerja in self.pekerja:
print("ABC", pekerja.nama, pekerja.umur)
def daftar_pekerja2(self):
for pekerja in self.pekerja:
(variable) pekerja: Any
print("Nabati", pekerja.nama, pekerja.umur)
pekerja1 = Pekerja("Rifki F", 21)
pekerja2 = Pekerja("Tegar T", 20)
perusahaan1 = Perusahaan("ABC", [pekerja1])
perusahaan2 = Perusahaan("Nabati", [pekerja2])
perusahaan1.daftar_pekerja1()
perusahaan2.daftar_pekerja2()
TERMINAL
2: Python Debug Consc
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSwindows
PS D:\PBO pertemuan 4> & 'C:\Users\avita\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\avita\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '57332' '--' 'D:\PBO pertemuan 4\composition 1.py'
ABC Rifki F 21
Nabati Tegar T 20
PS D:\PBO pertemuan 4>
Ln 23, Col 25 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit
Search
22:01
05/04/2023

## Contoh 2

**Script:**

```
class Player:
    def __init__(self, name):
        self.name = name
        self.inventory = Inventory()
        print("Hero Layla")

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

class Inventory:
    def __init__(self):
        self.items = []

    def add_item(self, item):
        self.items.append(item)
        print("Item", item.name)

    def remove_item(self, item):
        self.items.remove(item)


player = Player("Hero Layla")
sword = Item("Blade Of Despair (BoD)")
shield = Item("Radiant Armor")

print("="*40)
player.inventory.add_item(sword)
player.inventory.add_item(shield)
player.inventory.items
print(" ")
```

## Hasil Running Program

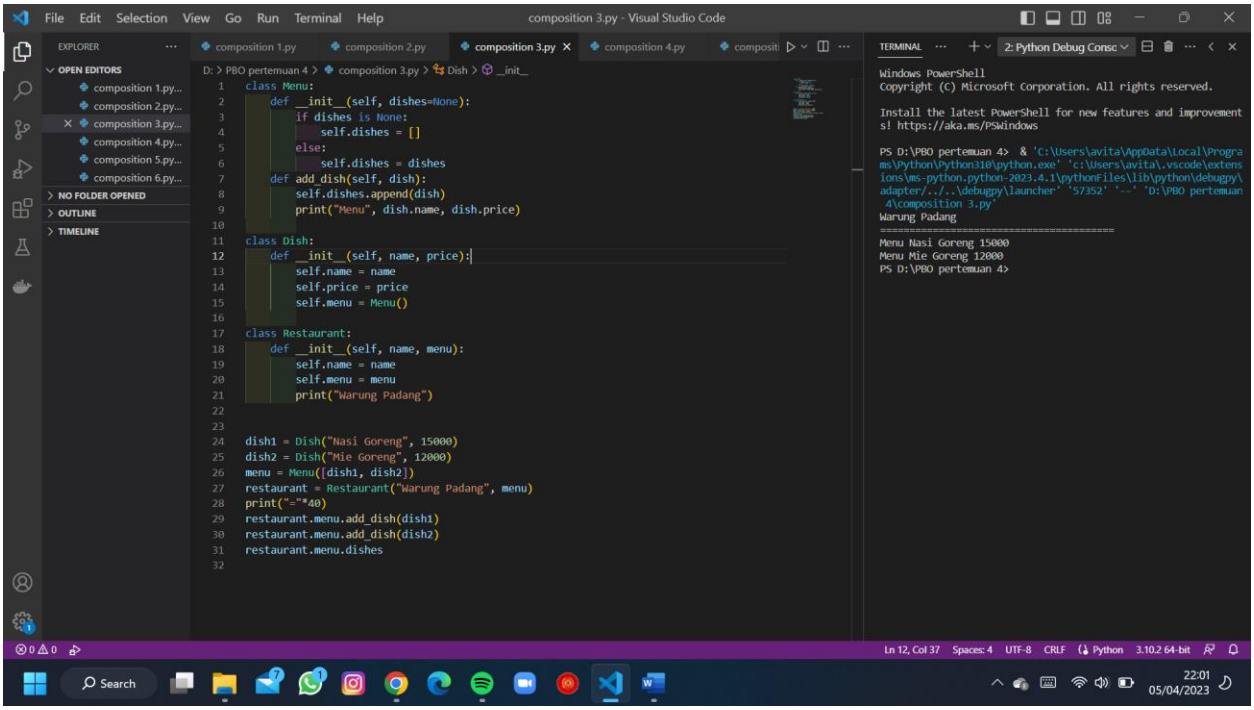


## Contoh 3

**Script:**

```
class Menu:
    def __init__(self, dishes=None):
        if dishes is None:
            self.dishes = []
        else:
            self.dishes = dishes
    def add_dish(self, dish):
        self.dishes.append(dish)
        print("Menu", dish.name, dish.price)

class Dish:
    def __init__(self, name, price):
        self.name = name
        self.price = price
        self.menu = Menu()

class Restaurant:
    def __init__(self, name, menu):
        self.name = name
        self.menu = menu
        print("Warung Padang")


dish1 = Dish("Nasi Goreng", 15000)
dish2 = Dish("Mie Goreng", 12000)
menu = Menu([dish1, dish2])
restaurant = Restaurant("Warung Padang", menu)
print("="*40)
restaurant.menu.add_dish(dish1)
restaurant.menu.add_dish(dish2)
restaurant.menu.dishes
```

## Hasil Running Program

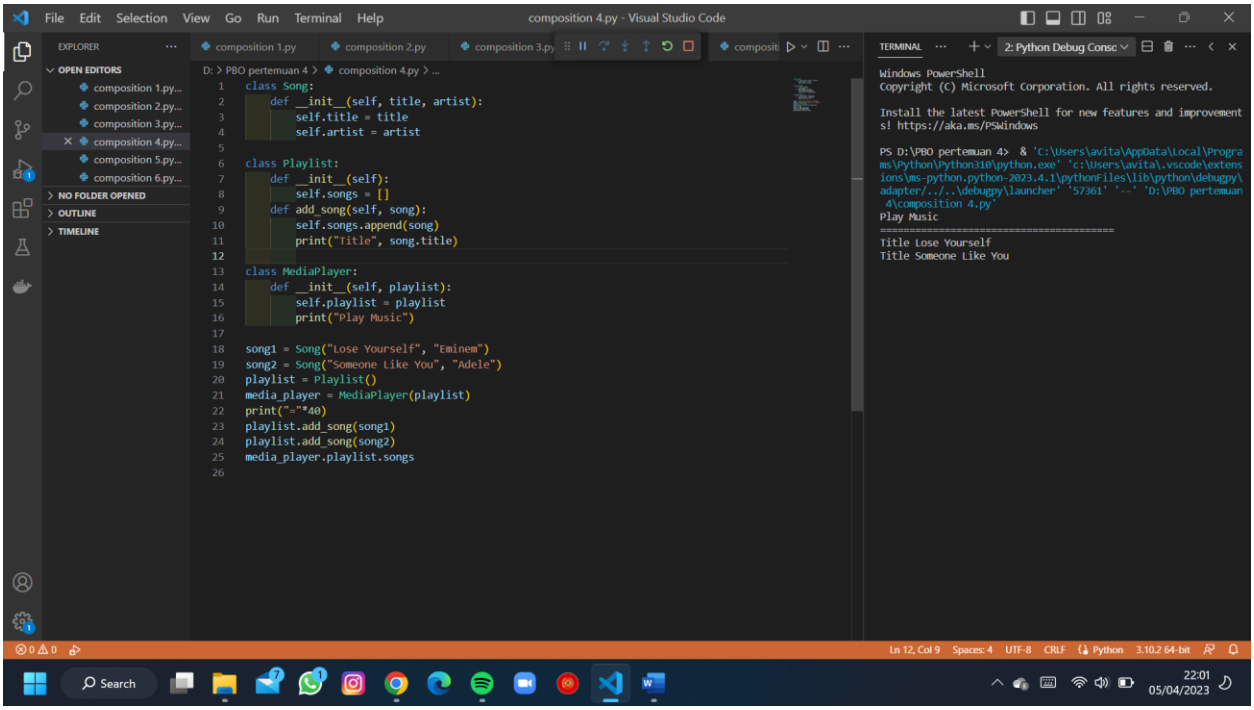


## Contoh 4

**Script:**

```
class Song:
    def __init__(self, title, artist):
        self.title = title
        self.artist = artist

class Playlist:
    def __init__(self):
        self.songs = []
    def add_song(self, song):
        self.songs.append(song)
        print("Title", song.title)

class MediaPlayer:
    def __init__(self, playlist):
        self.playlist = playlist
        print("Play Music")

song1 = Song("Lose Yourself", "Eminem")
song2 = Song("Someone Like You", "Adele")
playlist = Playlist()
media_player = MediaPlayer(playlist)
print("="*40)
playlist.add_song(song1)
playlist.add_song(song2)
media_player.playlist.songs
```

## Hasil Running Program

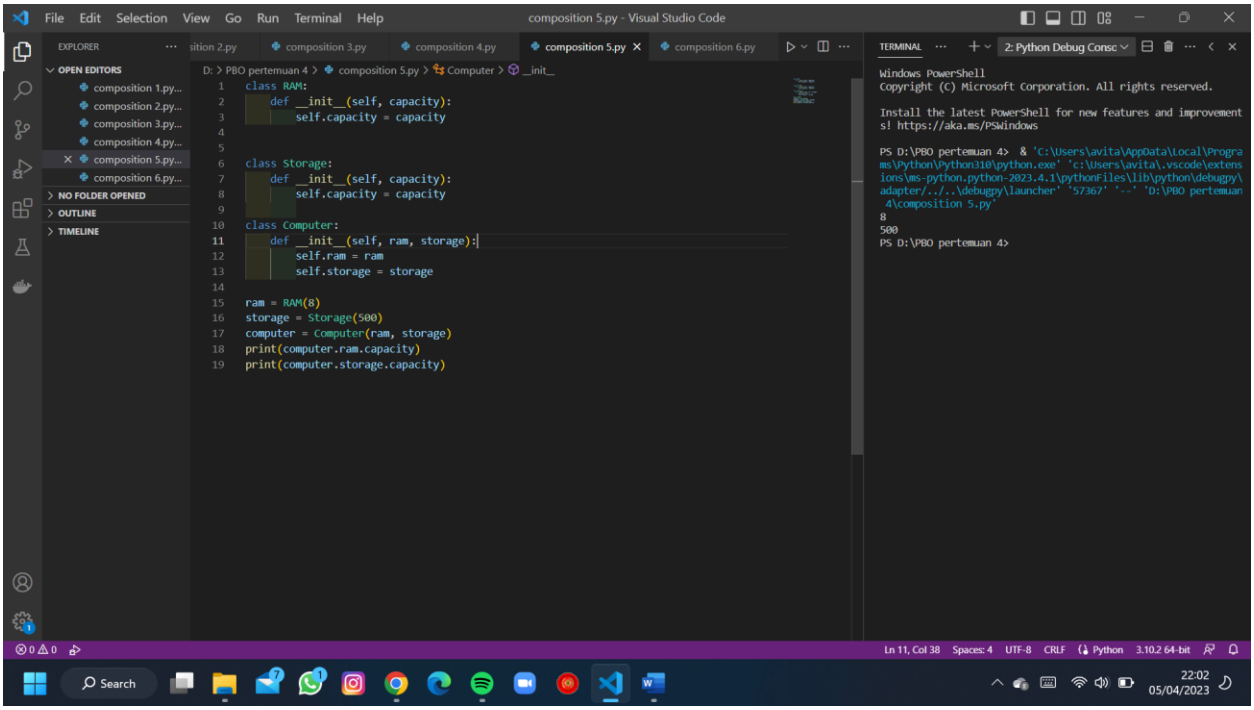


## Contoh 5

**Script:**

```
class RAM:
    def __init__(self, capacity):
        self.capacity = capacity


class Storage:
    def __init__(self, capacity):
        self.capacity = capacity

class Computer:
    def __init__(self, ram, storage):
        self.ram = ram
        self.storage = storage

ram = RAM(8)
storage = Storage(500)
computer = Computer(ram, storage)
print(computer.ram.capacity)
print(computer.storage.capacity)
```

**Hasil Running Program**



## Contoh 6

**Script:**

```
class Wheel:
    def __init__(self, size):
        self.size = size
class Engine:
    def __init__(self, power):
        self.power = power
class Car:
    def __init__(self, wheels, engine):
        self.wheels = wheels
        self.engine = engine

wheel1 = Wheel(17)
wheel2 = Wheel(17)
wheel3 = Wheel(17)
wheel4 = Wheel(17)
engine = Engine(150)
car = Car([wheel1, wheel2, wheel3, wheel4], engine)
print(car.wheels[0].size)
```

**Hasil Running Program**