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R1

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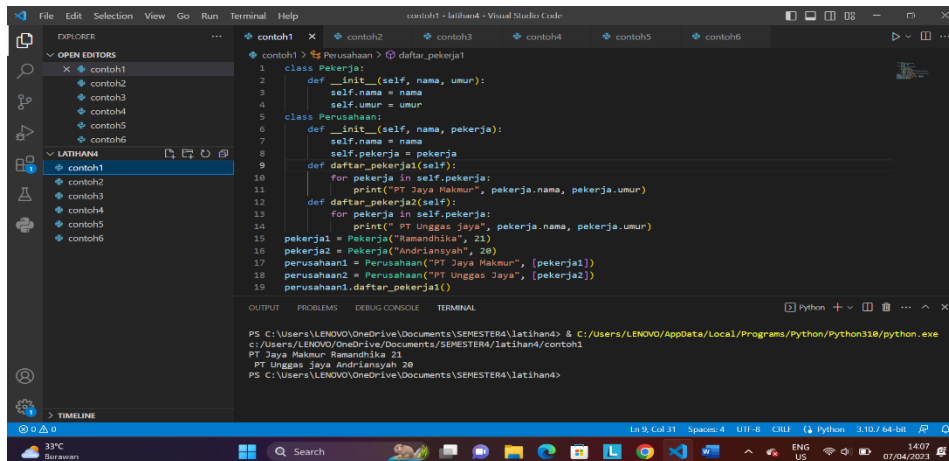
Latihan4 PBO

Contoh1

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("PT Jaya Makmur", pekerja.nama, pekerja.umur)
    def daftar_pekerja2(self):
        for pekerja in self.pekerja:
            print(" PT Unggas Jaya", pekerja.nama, pekerja.umur)
pekerja1 = Pekerja("Ramandhika", 21)
pekerja2 = Pekerja("Andriansyah", 20)
perusahaan1 = Perusahaan("PT Jaya Makmur", [pekerja1])
perusahaan2 = Perusahaan("PT Unggas Jaya", [pekerja2])
perusahaan1.daftar_pekerja1()
perusahaan2.daftar_pekerja2()
```

Hasil Running Program:



The screenshot displays the Visual Studio Code interface. The Explorer pane on the left shows a project named 'LATIHAN4' with files 'contoh1' through 'contoh6'. The main editor window shows the Python script from the previous block. The Output pane at the bottom shows the execution results of the script, which are:

```
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4> & c:\Users\LENOVO\AppData\Local\Programs\Python\Python318\python.exe c:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4\contoh1
PT Jaya Makmur Ramandhika 21
PT Unggas Jaya Andriansyah 20
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4>
```

The status bar at the bottom indicates the file is 'contoh1.py', it's a Python file, and the Python version is 3.10.7 64-bit.

Contoh 2

Script:

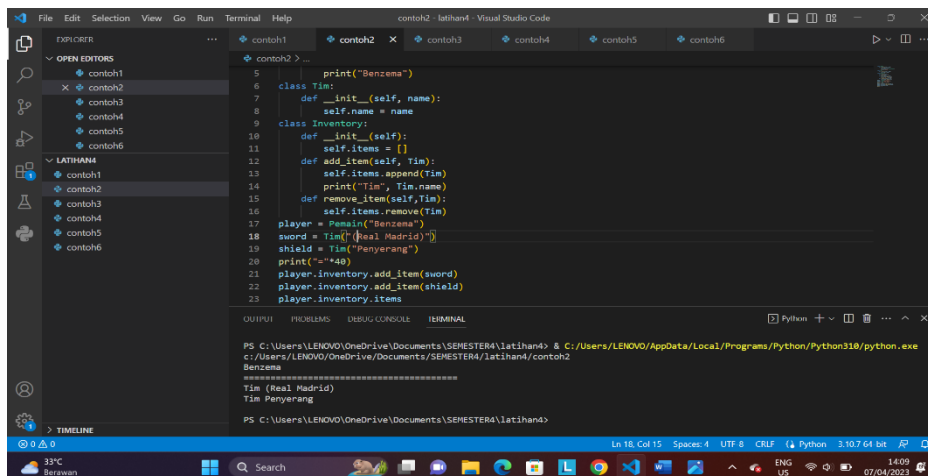
```
class Pemain:
    def __init__(self, name):
        self.name = name
        self.inventory = Inventory()
        print("Benzema")

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

class Inventory:
    def __init__(self):
        self.items = []
    def add_item(self, Tim):
        self.items.append(Tim)
        print("Tim", Tim.name)
    def remove_item(self, Tim):
        self.items.remove(Tim)

player = Pemain("Benzema")
sword = Tim("Real Madrid")
shield = Tim("Penyerang")
print("="*40)
player.inventory.add_item(sword)
player.inventory.add_item(shield)
player.inventory.items
print(" ")
```

Hasil Running Program:



```
File Edit Selection View Go Run Terminal Help
contoh2 - latihant4 - Visual Studio Code
OPEN EDITORS
  contoh1
  X contoh2
  contoh3
  contoh4
  contoh5
  contoh6
  LATIHAN4
    contoh1
    contoh2
    contoh3
    contoh4
    contoh5
    contoh6
OUTPUT
  PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihant4> & C:\Users\LENOVO\AppData\Local\Programs\Python\Python310\python.exe c:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihant4\contoh2
  Benzema
  Tim (Real Madrid)
  Tim (Penyerang)
  PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihant4>
```

Contoh3

Script:

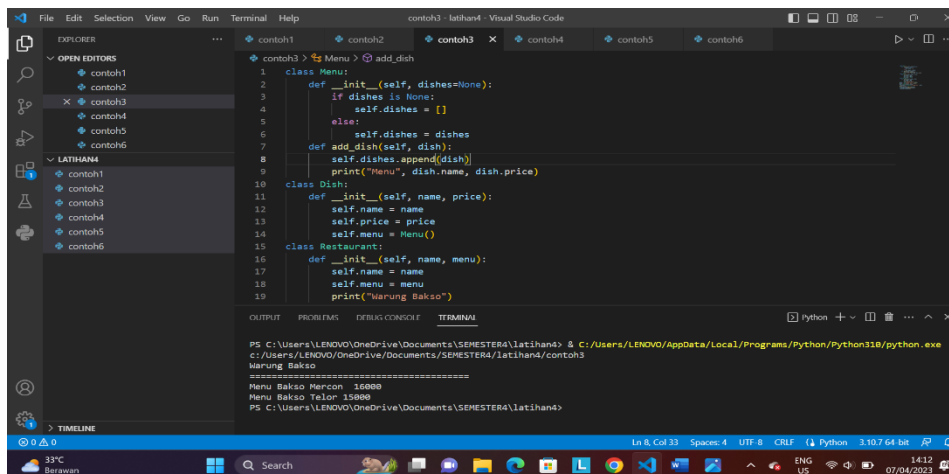
```
class Menu:
    def __init__(self, dishes=None):
        if dishes is None:
            self.dishes = []
        else:
            self.dishes = dishes
    def add_dish(self, dish):
        self.dishes.append(dish)
        print("Menu", dish.name, dish.price)

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 Bakso")

dish1 = Dish("Bakso Mercon ", 16000)
dish2 = Dish("Bakso Telor", 15000)
menu = Menu([dish1, dish2])
restaurant = Restaurant("Warung Bakso", menu)
print("="*40)
restaurant.menu.add_dish(dish1)
restaurant.menu.add_dish(dish2)
restaurant.menu.dishes
```

Hasil Running Program:



```
class Menu:
1  def __init__(self, dishes=None):
2      if dishes is None:
3          self.dishes = []
4      else:
5          self.dishes = dishes
6  def add_dish(self, dish):
7      self.dishes.append(dish)
8      print("Menu", dish.name, dish.price)

class Dish:
9  def __init__(self, name, price):
10     self.name = name
11     self.price = price
12     self.menu = Menu()

class Restaurant:
13  def __init__(self, name, menu):
14     self.name = name
15     self.menu = menu
16     print("Warung Bakso")

dish1 = Dish("Bakso Mercon ", 16000)
dish2 = Dish("Bakso Telor", 15000)
menu = Menu([dish1, dish2])
restaurant = Restaurant("Warung Bakso", menu)
print("="*40)
restaurant.menu.add_dish(dish1)
restaurant.menu.add_dish(dish2)
restaurant.menu.dishes
```

OUTPUT

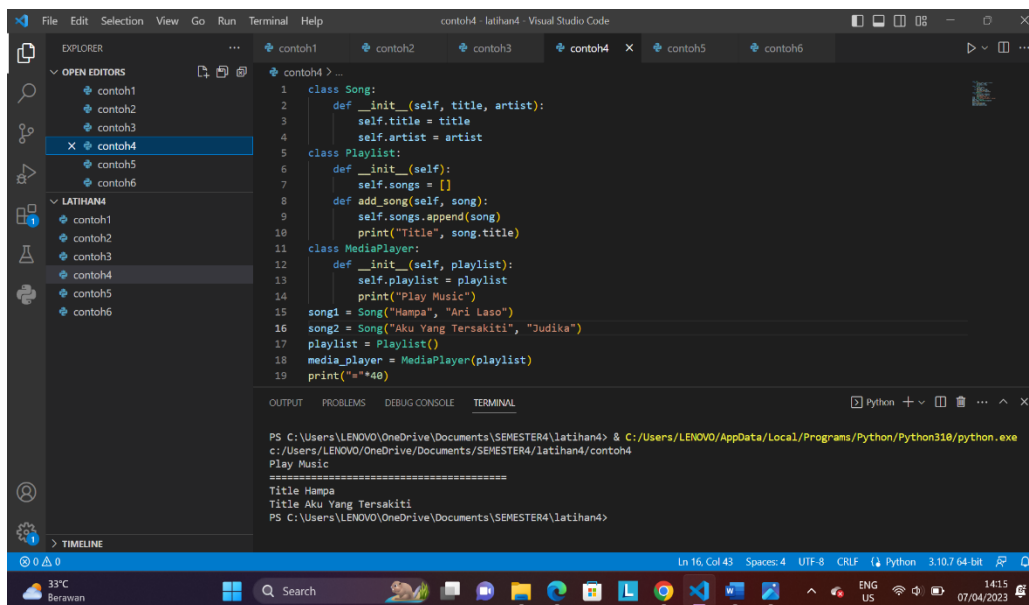
```
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4> & C:\Users\LENOVO\AppData\Local\Programs\Python\Python310\python.exe c:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4\contoh3
Warung Bakso
Menu Bakso Mercon 16000
Menu Bakso Telor 15000
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4>
```

Contoh4

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("Hampa", "Ari Laso")
song2 = Song("Aku Yang Tersakiti", "Judika")
playlist = Playlist()
media_player = MediaPlayer(playlist)
print("="*40)
playlist.add_song(song1)
playlist.add_song(song2)
media_player.playlist.songs
```

Hasil Running Program:



```
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("Hampa", "Ari Laso")
song2 = Song("Aku Yang Tersakiti", "Judika")
playlist = Playlist()
media_player = MediaPlayer(playlist)
print("="*40)
playlist.add_song(song1)
playlist.add_song(song2)
media_player.playlist.songs
```

OUTPUT

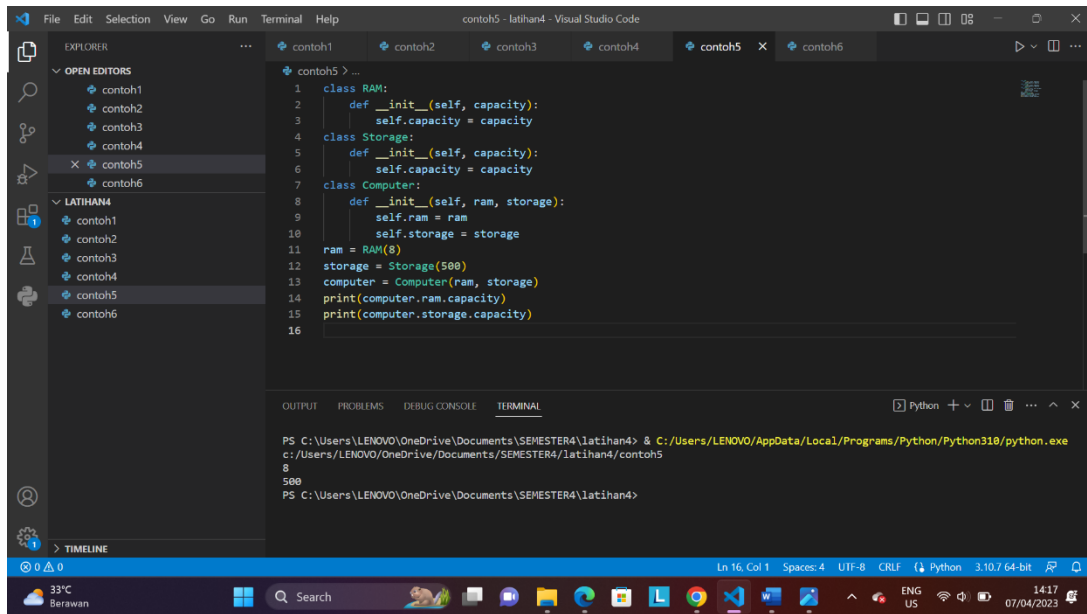
```
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python310/python.exe c:/Users/LENOVO/OneDrive/Documents/SEMESTER4/latihan4/latihan4/contoh4
Play Music
=====
Title Hampa
Title Aku Yang Tersakiti
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4>
```

Contoh5

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:



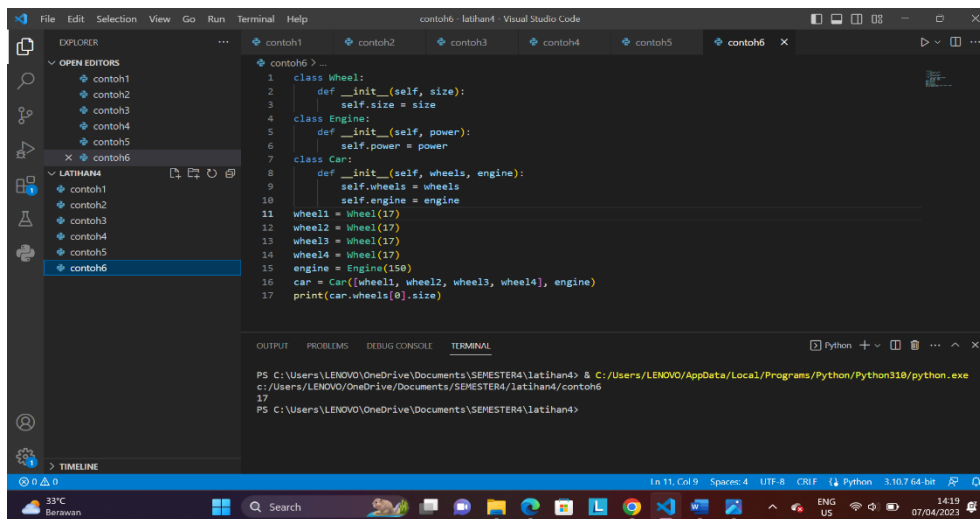
```
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python318/python.exe c:/Users/LENOVO/OneDrive/Documents/SEMESTER4/Latihan4/contoh5
8
500
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4>
```

Contoh6

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:



```
File Edit Selection View Go Run Terminal Help
contoh6 - latihan4 - Visual Studio Code

EXPLORER
  OPEN EDITORS
    contoh1
    contoh2
    contoh3
    contoh4
    contoh5
    contoh6
  LATHAN4
    contoh1
    contoh2
    contoh3
    contoh4
    contoh5
    contoh6

contoh6.py
1 class Wheel:
2     def __init__(self, size):
3         self.size = size
4 class Engine:
5     def __init__(self, power):
6         self.power = power
7 class Car:
8     def __init__(self, wheels, engine):
9         self.wheels = wheels
10        self.engine = engine
11 wheel1 = Wheel(17)
12 wheel2 = Wheel(17)
13 wheel3 = Wheel(17)
14 wheel4 = Wheel(17)
15 engine = Engine(150)
16 car = Car([wheel1, wheel2, wheel3, wheel4], engine)
17 print(car.wheels[0].size)

OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL
Python
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4> & C:/Users/LENOVO/AppData/Local/Programs/Python/Python310/python.exe
c:/Users/LENOVO/OneDrive/Documents/SEMESTER4/latihan4/contoh6
17
PS C:\Users\LENOVO\OneDrive\Documents\SEMESTER4\latihan4>
```