

Nama : Tegar Trisakti Pamungkas

Kelas : R1

Nim: 210511029

Tugas PBO 2 Pratikum 2

Single 1

```
#Nama : Tegar Trisakti Pamungkas
```

```
#Kelas : R1
```

```
#NIM : 210511029
```

```
class Hewan:
```

```
    def __init__(self, nama, umur):
```

```
        self.nama = nama
```

```
        self.umur = umur
```

```
    def berbunyi(self):
```

```
        print("Macan", self.nama, "Menggaung")
```

```
class Macan(Hewan):
```

```
    def __init__(self, nama, umur, jenis):
```

```
        super().__init__(nama, umur)
```

```
        self.jenis = jenis
```

```
    def bersuara(self):
```

```
        print("Ganas")
```

```
        print("berumur", self.umur, "tahun")
```

```
    def berjenis(self):
```

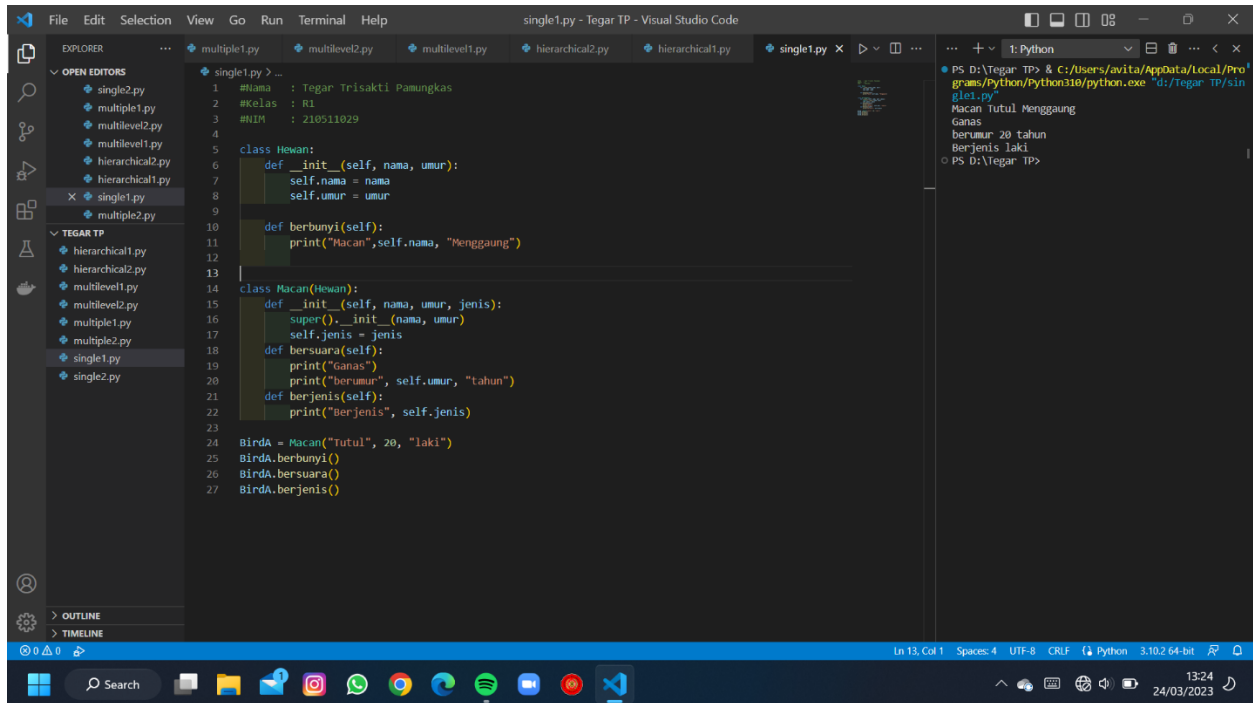
```
        print("Berjenis", self.jenis)
```

```
BirdA = Macan("Tutul", 20, "laki")
```

```
BirdA.berbunyi()
```

```
BirdA.bersuara()
```

```
BirdA.berjenis()
```



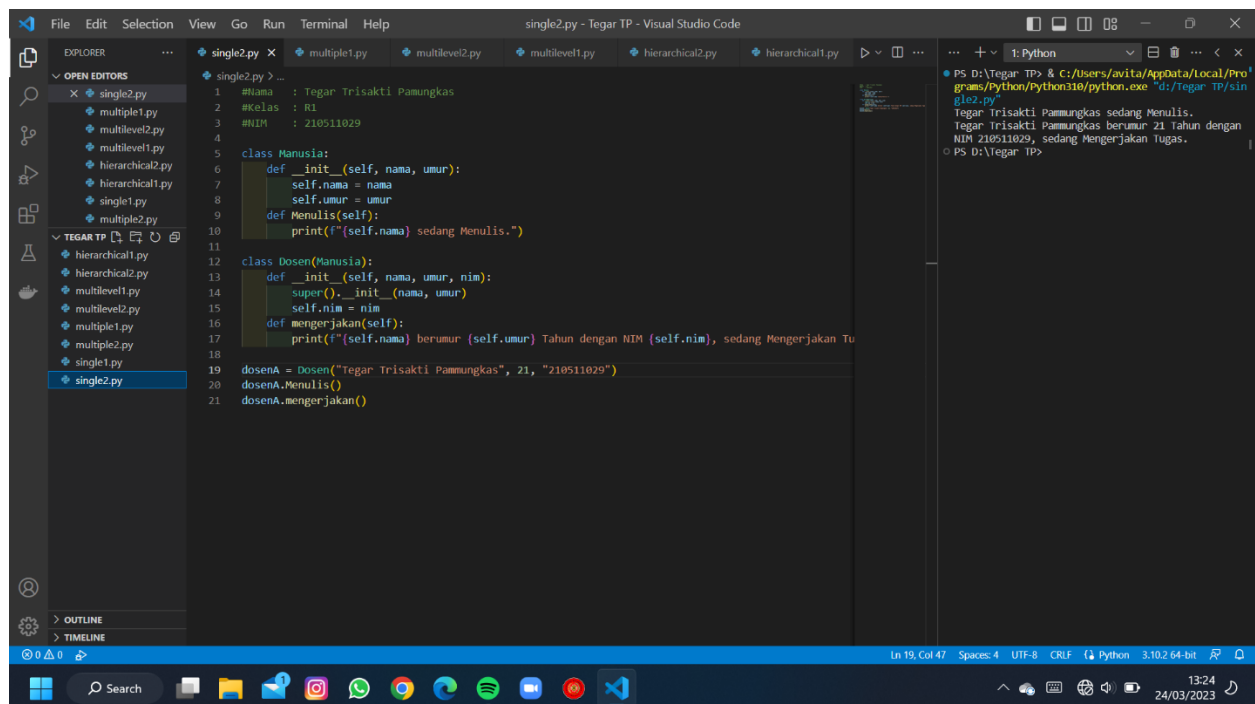
Single 2

Script

```
#Nama : Tegar Trisakti Pamungkas  
#Kelas : R1  
#NIM : 210511029
```

```
class Manusia:  
    def __init__(self, nama, umur):  
        self.nama = nama  
        self.umur = umur  
    def Menulis(self):  
        print(f"{self.nama} sedang Menulis.")  
  
class Dosen(Manusia):  
    def __init__(self, nama, umur, nim):  
        super().__init__(nama, umur)  
        self.nim = nim  
    def mengerjakan(self):  
        print(f"{self.nama} berumur {self.umur} Tahun dengan NIM {self.nim},  
sedang Mengerjakan Tugas.")  
  
dosenA = Dosen("Tegar Trisakti Pammungkas", 21, "210511029")
```

```
dosenA.Menulis()  
dosenA.mengerjakan()
```



multiple 1

Script

```
#Nama : Tegar Trisakti Pamungkas  
#Kelas : R1  
#NIM : 210511029
```

```
class Customer:  
    def __init__(self, nama, nim):  
        self.nama = nama  
        self.nim = nim  
    def membeli(self):  
        print(self.nama, "sedang membeli Ayam diKFC ")
```

```
class Grab:  
    def __init__(self, nama, nim, grab):  
        self.nama = nama
```

```

        self.nim = nim
        self.grab = grab
    def mengantar(self):
        print(self.nama, "sedang mengantar Makanan lewat", self.grab)

class CustomerGrab(Customer, Grab):
    def __init__(self, nama, nim, grab):
        Customer.__init__(self, nama, nim)
        Grab.__init__(self, nama, nim, grab)
    def membayar(self):
        print(self.nama,"dengan NIM", self.nim, "sedang membayar ke", self.grab)

mhs_Grab = CustomerGrab("Tegar Trisakti Pamungkas", "210511029", "grab")
mhs_Grab.membeli()
mhs_Grab.mengantar()
mhs_Grab.membayar()

```

```

File Edit Selection View Go Run Terminal Help
multiple1.py - Tegar TP - Visual Studio Code

EXPLORER
  OPEN EDITORS
    single2.py
    multiple1.py X
    multilevel2.py
    multilevel1.py
    hierarchical2.py
    hierarchical1.py
    single1.py
    multiple2.py
  TEGAR TP
    hierarchical1.py
    hierarchical2.py
    multilevel1.py
    multilevel2.py
    multiple1.py
    multiple2.py
    single1.py
    single2.py
  OUTLINE
  TIMELINE

multiple1.py
1 #Nama : Tegar Trisakti Pamungkas
2 #Kelas : R1
3 #NIM : 210511029
4
5 class Customer:
6     def __init__(self, nama, nim):
7         self.nama = nama
8         self.nim = nim
9     def membeli(self):
10        print(self.nama, "sedang membeli Ayam dikFC ")
11
12 class Grab:
13     def __init__(self, nama, nim, grab):
14         self.nama = nama
15         self.nim = nim
16         self.grab = grab
17     def mengantar(self):
18        print(self.nama, "sedang mengantar Makanan lewat", self.grab)
19
20 class CustomerGrab(Customer, Grab):
21     def __init__(self, nama, nim, grab):
22         Customer.__init__(self, nama, nim)
23         Grab.__init__(self, nama, nim, grab)
24     def membayar(self):
25        print(self.nama,"dengan NIM", self.nim, "sedang membayar ke", self.grab)
26
27 mhs_Grab = CustomerGrab("Tegar Trisakti Pamungkas", "210511029", "grab")
28 mhs_Grab.membeli()
29 mhs_Grab.mengantar()
30 mhs_Grab.membayar()

Python
  PS D:\Tegar TP> & C:\Users\avita\AppData\Local\Programs\Python\Python310/python.exe "d:/Tegar TP/multiple1.py"
  Tegar Trisakti Pamungkas sedang membeli Ayam dikFC
  Tegar Trisakti Pamungkas sedang mengantar Makanan Lewat grab
  Tegar Trisakti Pamungkas dengan NIM 210511029 sedang membayar ke grab
  PS D:\Tegar TP>

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13:25 24/03/2023

```

Multiple 2

Script

```
#Nama    : Tegar Trisakti Pamungkas
#Kelas  : R1
#NIM     : 210511029
```

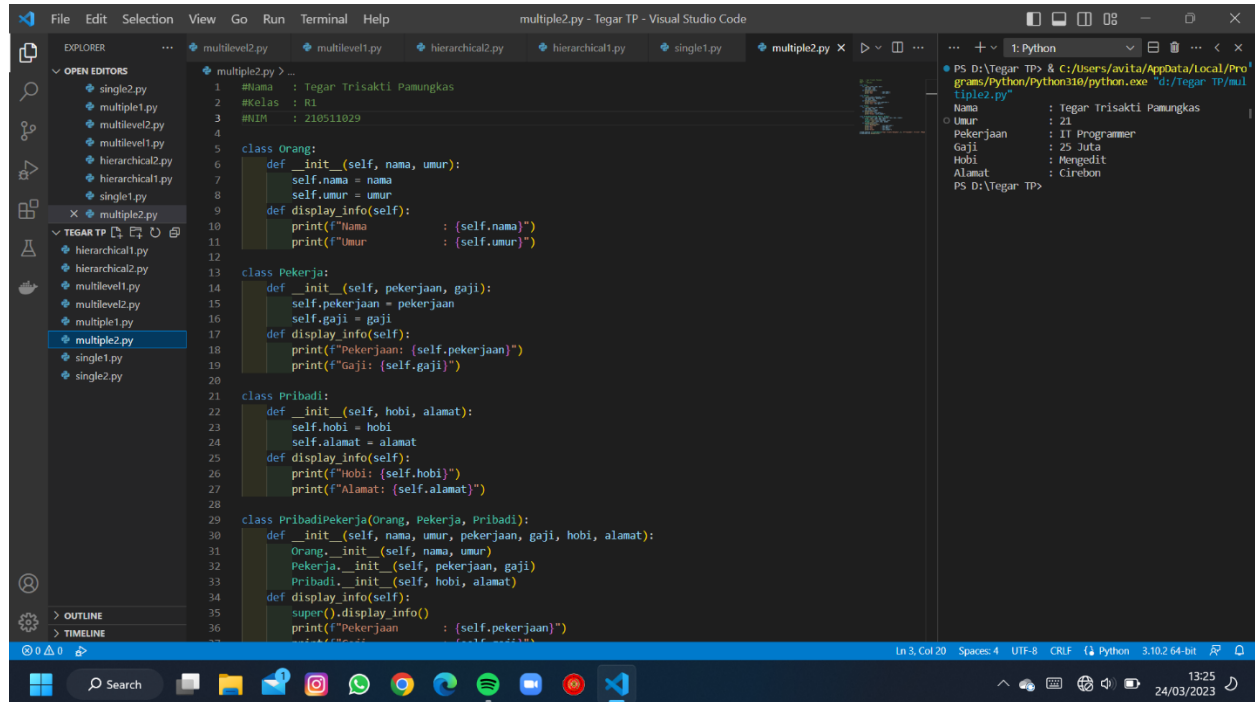
```
class Orang:
    def __init__(self, nama, umur):
        self.nama = nama
        self.umur = umur
    def display_info(self):
        print(f>Nama          : {self.nama}")
        print(f"Umur         : {self.umur}")
```

```
class Pekerja:
    def __init__(self, pekerjaan, gaji):
        self.pekerjaan = pekerjaan
        self.gaji = gaji
    def display_info(self):
        print(f"Pekerjaan: {self.pekerjaan}")
        print(f"Gaji: {self.gaji}")
```

```
class Pribadi:
    def __init__(self, hobi, alamat):
        self.hobi = hobi
        self.alamat = alamat
    def display_info(self):
        print(f"Hobi: {self.hobi}")
        print(f"Alamat: {self.alamat}")
```

```
class PribadiPekerja(Orang, Pekerja, Pribadi):
    def __init__(self, nama, umur, pekerjaan, gaji, hobi, alamat):
        Orang.__init__(self, nama, umur)
        Pekerja.__init__(self, pekerjaan, gaji)
        Pribadi.__init__(self, hobi, alamat)
    def display_info(self):
        super().display_info()
        print(f"Pekerjaan      : {self.pekerjaan}")
        print(f"Gaji           : {self.gaji}")
        print(f"Hobi          : {self.hobi}")
        print(f"Alamat        : {self.alamat}")
```

```
pribadi_pekerjaC = PribadiPekerja("Tegar Trisakti Pamungkas", 21, "IT
Programmer", "25 Juta", "Mengedit", "Cirebon")
pribadi_pekerjaC.display_info()
```



Multilevel 1

Script

```
#Nama : Tegar Trisakti Pamungkas
#Kelas : R1
#NIM : 210511029

class Perpus:
    def __init__(self, name):
        self.name = name
    def speak(self):
        print(f"{self.name} speaks")

class Penjaga(Perpus):
    def __init__(self, name, nip):
```

```

        super().__init__(name)
        self.nip = nip
    def data(self):
        print(f"{self.name} dengan nip {self.nip}")

class Pengunjung(Penjaga):
    def __init__(self, name, nip, alamat):
        super().__init__(name, nip)
        self.alamat = alamat
    def speak(self):
        print(f"{self.name} Beralamatkan {self.alamat} berkunjung ke
Perpustakaan")
        print("="*54)

Pengunjung = Pengunjung("Tegar Trisakti Pamungkas", 210511029, "Cirebon")
Pengunjung.data()
Pengunjung.speak()

```

```

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multilevel1.py - Tegar TP - Visual Studio Code

EXPLORER
...
single2.py
multiple1.py
multiple2.py
X multilevel1.py
hierarchical2.py
hierarchical1.py
single1.py
multiple2.py

TEGAR TP
hierarchical1.py
hierarchical2.py
multilevel1.py
multiple2.py
multiple1.py
single1.py
single2.py

OUTLINE
TIMELINE

Ln 26, Col 72 Spaces: 4 UTF-8 CRLF Python 3.10.2 64-bit

1 #Nama : Tegar Trisakti Pamungkas
2 #Kelas : R1
3 #NIM : 210511029
4
5 class Perpus:
6     def __init__(self, name):
7         self.name = name
8     def speak(self):
9         print(f"{self.name} speaks")
10
11 class Penjaga(Perpus):
12     def __init__(self, name, nip):
13         super().__init__(name)
14         self.nip = nip
15     def data(self):
16         print(f"{self.name} dengan nip {self.nip}")
17
18 class Pengunjung(Penjaga):
19     def __init__(self, name, nip, alamat):
20         super().__init__(name, nip)
21         self.alamat = alamat
22     def speak(self):
23         print(f"{self.name} Beralamatkan {self.alamat} berkunjung ke Perpustakaan")
24         print("="*54)
25
26 Pengunjung = Pengunjung("Tegar Trisakti Pamungkas", 210511029, "Cirebon")
27 Pengunjung.data()
28 Pengunjung.speak()
29
Python
PS D:\Tegar TP> & C:\Users\avita\AppData\Local\Programs\Python\Python310\python.exe "d:/Tegar TP/multilevel1.py"
Tegar Trisakti Pamungkas dengan nip 210511029
Tegar Trisakti Pamungkas Beralamatkan Cirebon berkunjung ke Perpustakaan
=====
PS D:\Tegar TP>

```

Multilevel 2

Script

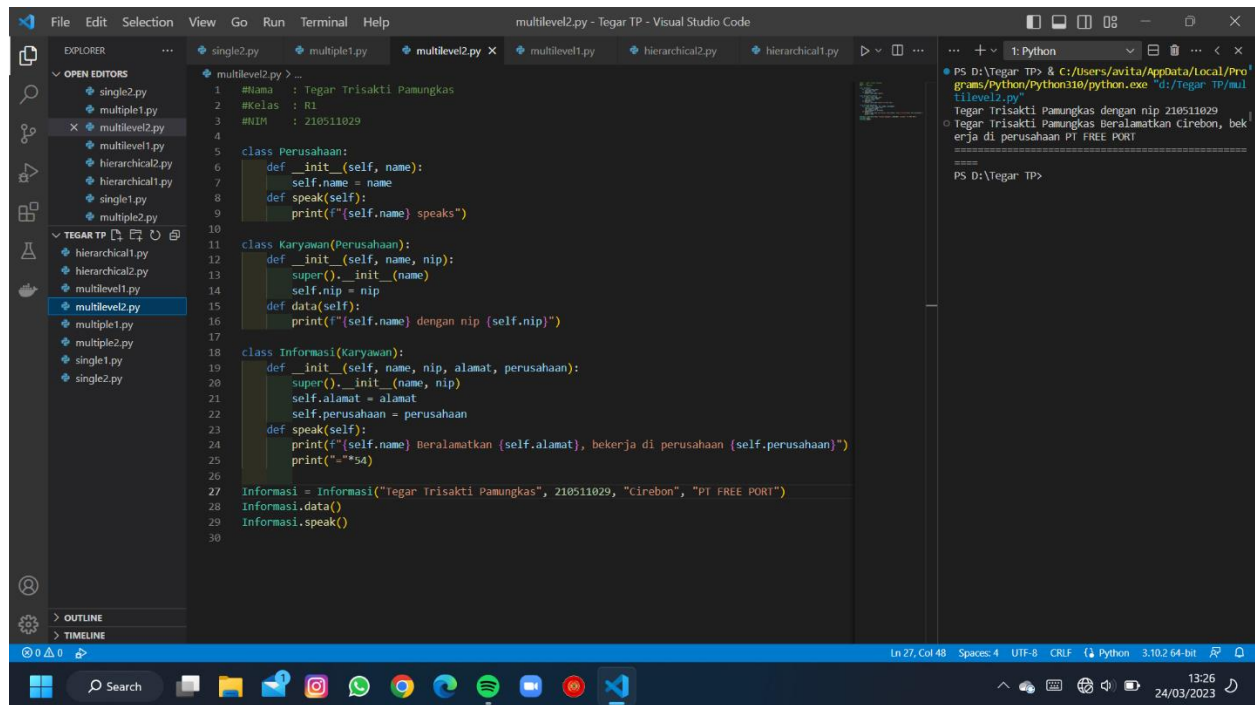
```
#Nama    : Tegar Trisakti Pamungkas
#Kelas   : R1
#NIM      : 210511029
```

```
class Perusahaan:
    def __init__(self, name):
        self.name = name
    def speak(self):
        print(f"{self.name} speaks")

class Karyawan(Perusahaan):
    def __init__(self, name, nip):
        super().__init__(name)
        self.nip = nip
    def data(self):
        print(f"{self.name} dengan nip {self.nip}")

class Informasi(Karyawan):
    def __init__(self, name, nip, alamat, perusahaan):
        super().__init__(name, nip)
        self.alamat = alamat
        self.perusahaan = perusahaan
    def speak(self):
        print(f"{self.name} Beralamatkan {self.alamat}, bekerja di perusahaan {self.perusahaan}")
        print("="*54)

Informasi = Informasi("Tegar Trisakti Pamungkas", 210511029, "Cirebon", "PT FREE PORT")
Informasi.data()
Informasi.speak()
```

Hierarchical 1

Script

```

#Nama : Tegar Trisakti Pamungkas
#Kelas : R1
#NIM : 210511029

```

```

class Employee:
    def __init__(self, name, age, salary):
        self.name = name
        self.age = age
        self.salary = salary

    def get_name(self):
        return self.name
    def get_age(self):
        return self.age
    def get_salary(self):

```

```

        return self.salary
    def speak(self):
        print(f"{self.name} speaks")

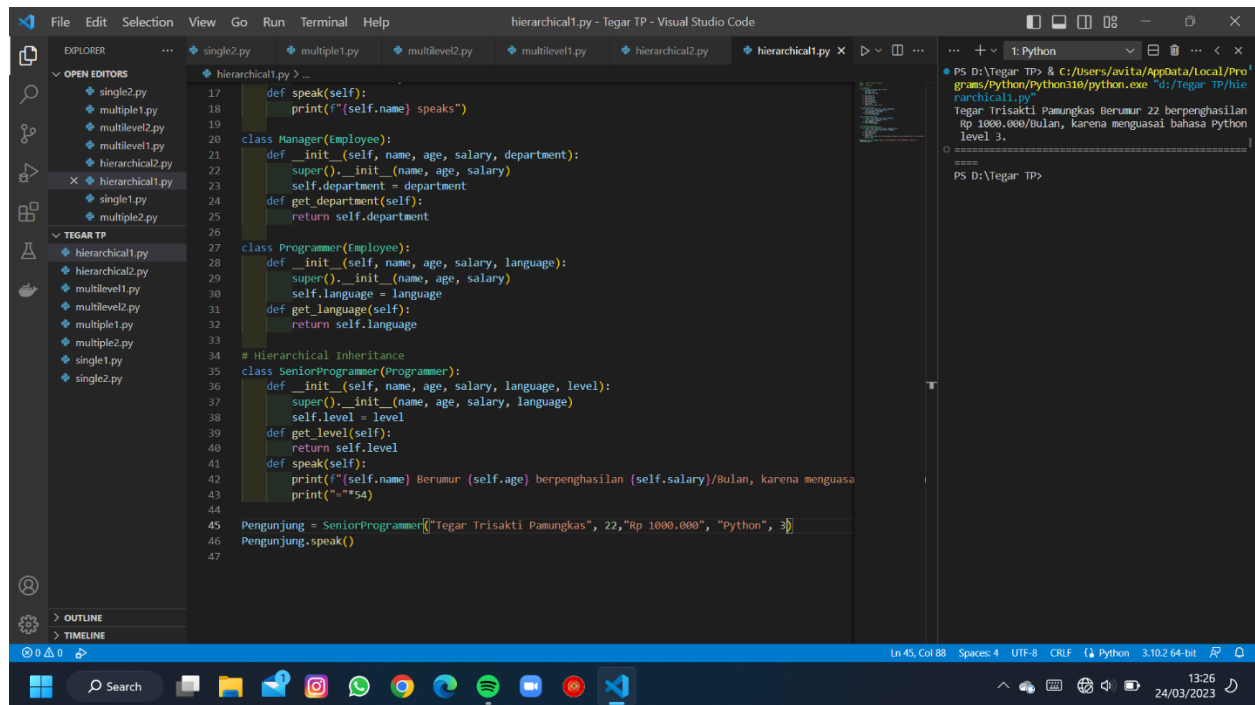
class Manager(Employee):
    def __init__(self, name, age, salary, department):
        super().__init__(name, age, salary)
        self.department = department
    def get_department(self):
        return self.department

class Programmer(Employee):
    def __init__(self, name, age, salary, language):
        super().__init__(name, age, salary)
        self.language = language
    def get_language(self):
        return self.language

# Hierarchical Inheritance
class SeniorProgrammer(Programmer):
    def __init__(self, name, age, salary, language, level):
        super().__init__(name, age, salary, language)
        self.level = level
    def get_level(self):
        return self.level
    def speak(self):
        print(f"{self.name} Berumur {self.age} berpenghasilan
{self.salary}/Bulan, karena menguasai bahasa {self.language} level
{self.level}.")
        print("="*54)

Pengujung = SeniorProgrammer("Tegar Trisakti Pamungkas", 22, "Rp 1000.000",
"Python", 3)
Pengujung.speak()

```



Hierarchical 2

Script

```
#Nama : Tegar Trisakti Pamungkas  
#Kelas : R1  
#NIM : 210511029
```

```
class Ekspedisi:  
    def __init__(self, nama, umur, gaji):  
        self.nama = nama  
        self.umur = umur  
        self.gaji = gaji  
  
    def get_nama(self):  
        return self.nama  
    def get_umur(self):  
        return self.umur  
    def get_gaji(self):  
        return self.gaji
```

```

def speak(self):
    print(f"{self.nama} speaks")

class Kurir(Ekspedisi):
    def __init__(self, nama, umur, gaji, department):
        super().__init__(nama, umur, gaji)
        self.department = department
    def get_department(self):
        return self.department

class Datakurir(Ekspedisi):
    def __init__(self, nama, umur, gaji, alamat):
        super().__init__(nama, umur, gaji)
        self.alamat = alamat
    def get_alamat(self):
        return self.alamat

# Hierarchical Inheritance
class SeniorDatakurir(Datakurir):
    def __init__(self, nama, umur, gaji, alamat, ekspedisi):
        super().__init__(nama, umur, gaji, alamat)
        self.ekspedisi = ekspedisi
    def get_ekspedisi(self):
        return self.ekspedisi
    def data(self):
        print(f"{self.nama} Berumur {self.umur} tahun berpenghasilan
Rp{self.gaji} /Bulan, alamat pengantaran {self.alamat} dengan ekspedisi
{self.ekspedisi}.")
        print("="*54)

Pengunjung = SeniorDatakurir("Tegar Trisakti Pamungkas", 22, 5000.000, "Cirebon",
"JNE")
Pengunjung.data()

```

