

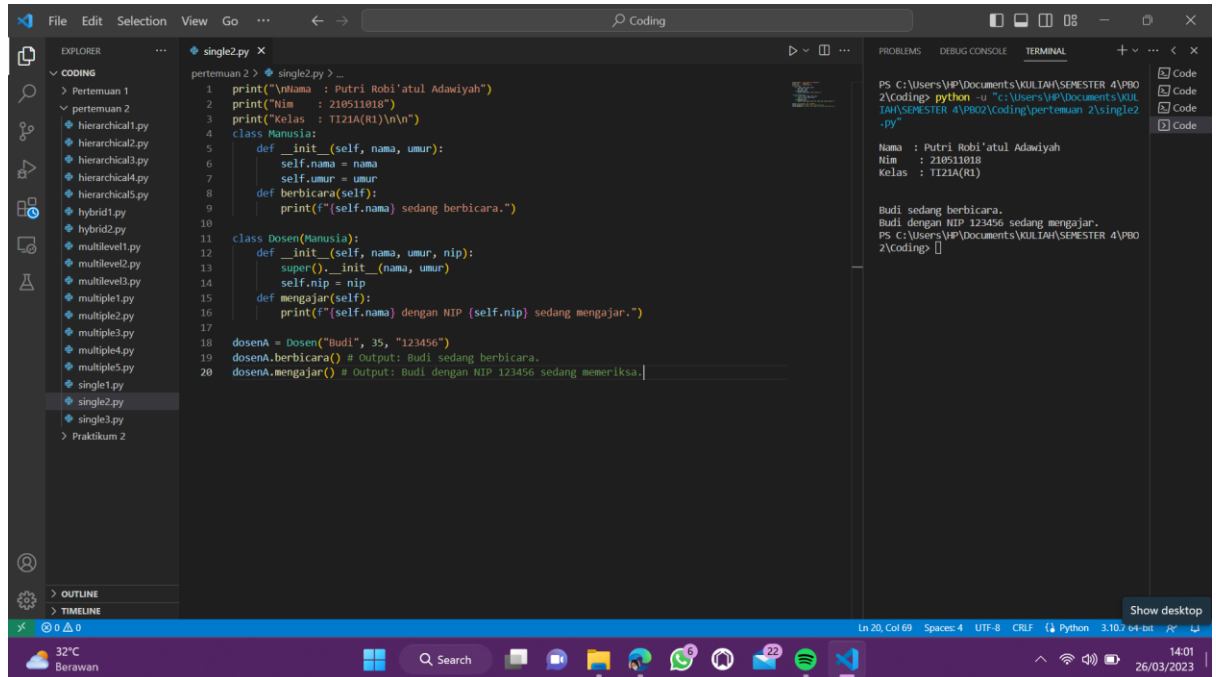
Nama : Putri Robi'atul Adawiyah

Nim : 210511018

Kelas : TI21A (R1)

Tugas : SS Latihan Inheritance PBO2

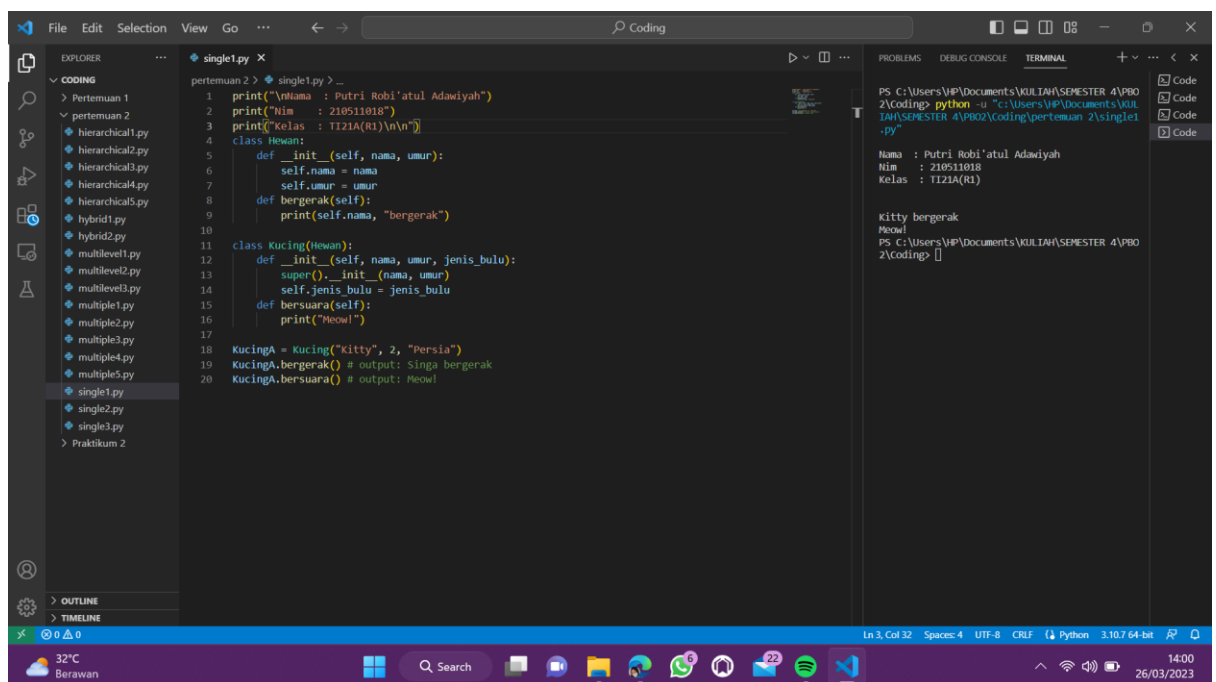
1. Single



```
File Edit Selection View Go ... Coding
EXPLORER
CODING
pertemuan 2 > single2.py
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Manusia:
5     def __init__(self, nama, umur):
6         self.nama = nama
7         self.umur = umur
8     def berbicara(self):
9         print(f"{self.nama} sedang berbicara.")
10
11 class Dosen(Manusia):
12     def __init__(self, nama, umur, nip):
13         super().__init__(nama, umur)
14         self.nip = nip
15     def mengajar(self):
16         print(f"{self.nama} dengan NIP {self.nip} sedang mengajar.")
17
18 dosenA = Dosen("Budi", 35, "123456")
19 dosenA.berbicara() # Output: Budi sedang berbicara.
20 dosenA.mengajar() # Output: Budi dengan NIP 123456 sedang mengajar.
```

```
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO 2\coding> python -u "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO2\coding\pertemuan 2\single2.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

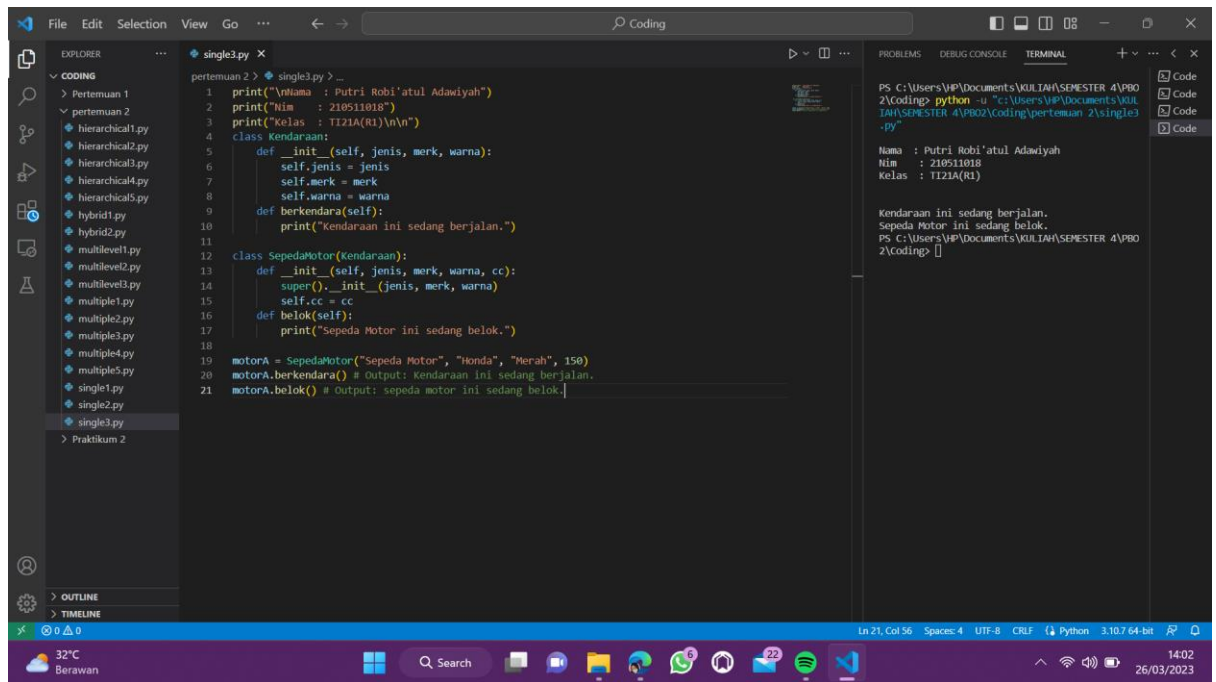
Budi sedang berbicara.
Budi dengan NIP 123456 sedang mengajar.
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO 2\coding>
```



```
File Edit Selection View Go ... Coding
EXPLORER
CODING
pertemuan 2 > single1.py
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Hewan:
5     def __init__(self, nama, umur):
6         self.nama = nama
7         self.umur = umur
8     def bergerak(self):
9         print(self.nama, "bergerak")
10
11 class Kucing(Hewan):
12     def __init__(self, nama, umur, jenis_bulu):
13         super().__init__(nama, umur)
14         self.jenis_bulu = jenis_bulu
15     def bersuara(self):
16         print("Meow!")
17
18 kucingA = Kucing("Kitty", 2, "Persia")
19 kucingA.bergerak() # output: Singa bergerak
20 kucingA.bersuara() # output: Meow!
```

```
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO 2\coding> python -u "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO2\coding\pertemuan 2\single1.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Kitty bergerak
Meow!
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PBO 2\coding>
```



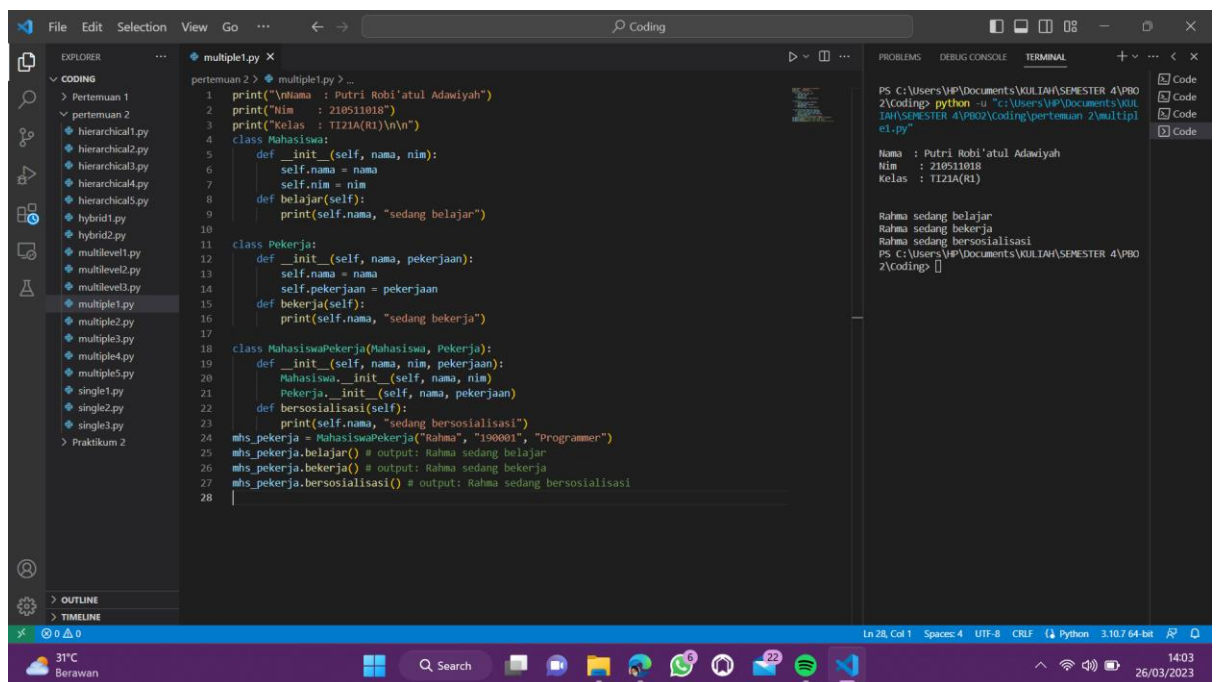
```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Kendaraan:
5     def __init__(self, jenis, merk, warna):
6         self.jenis = jenis
7         self.merk = merk
8         self.warna = warna
9     def berkendara(self):
10        print("Kendaraan ini sedang berjalan.")
11
12 class SepedaMotor(Kendaraan):
13     def __init__(self, jenis, merk, warna, cc):
14         super().__init__(jenis, merk, warna)
15         self.cc = cc
16     def belok(self):
17        print("Sepeda Motor ini sedang belok.")
18
19 motorA = SepedaMotor("Sepeda Motor", "Honda", "Merah", 150)
20 motorA.berkendara() # Output: Kendaraan ini sedang berjalan.
21 motorA.belok() # Output: Sepeda motor ini sedang belok.
```

PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding> python -u "C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding\pertemuan 2\single3.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Kendaraan ini sedang berjalan.
Sepeda Motor ini sedang belok.
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding> []

2. Multiple



```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Mahasiswa:
5     def __init__(self, nama, nim):
6         self.nama = nama
7         self.nim = nim
8     def belajar(self):
9        print(self.nama, "sedang belajar")
10
11 class Pekerja:
12     def __init__(self, nama, pekerjaan):
13         self.nama = nama
14         self.pekerjaan = pekerjaan
15     def bekerja(self):
16        print(self.nama, "sedang bekerja")
17
18 class MahasiswaPekerja(Mahasiswa, Pekerja):
19     def __init__(self, nama, nim, pekerjaan):
20         Mahasiswa.__init__(self, nama, nim)
21         Pekerja.__init__(self, nama, pekerjaan)
22     def bersosialisasi(self):
23        print(self.nama, "sedang bersosialisasi")
24
25 mhs_pekerja = MahasiswaPekerja("Rahma", "190001", "Programmer")
26 mhs_pekerja.belajar() # Output: Rahma sedang belajar
27 mhs_pekerja.bekerja() # Output: Rahma sedang bekerja
28 mhs_pekerja.bersosialisasi() # Output: Rahma sedang bersosialisasi
```

PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding> python -u "C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding\pertemuan 2\multiple1.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Rahma sedang belajar
Rahma sedang bekerja
Rahma sedang bersosialisasi
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PROG2\coding> []

```
File Edit Selection View Go ... Coding
EXPLORER
CODING
multiple3.py X
pertemuan 2 > multiple3.py > ...
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Orang:
5     def __init__(self, nama, umur):
6         self.nama = nama
7         self.umur = umur
8     def display_info(self):
9         print(f>Nama: {self.nama}")
10        print(f"Umur: {self.umur}")
11
12 class Pekerja:
13     def __init__(self, pekerjaan, gaji):
14         self.pekerjaan = pekerjaan
15         self.gaji = gaji
16     def display_info(self):
17         print(f"Pekerjaan: {self.pekerjaan}")
18         print(f"Gaji: {self.gaji}")
19
20 class Penulis:
21     def __init__(self, buku, genre):
22         self.buku = buku
23         self.genre = genre
24     def display_info(self):
25         print(f"Buku: {self.buku}")
26         print(f"Genre: {self.genre}")
27
28 class PenulisPekerja(Orang, Pekerja, Penulis):
29     def __init__(self, nama, umur, pekerjaan, gaji, buku, genre):
30         Orang.__init__(self, nama, umur)
31         Pekerja.__init__(self, pekerjaan, gaji)
32         Penulis.__init__(self, buku, genre)
33
34     def display_info(self):
35         super().display_info()
36         print(f"Pekerjaan: {self.pekerjaan}")
```

PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> python -u "C:\Users\VP\Documents\VO
LIAH\SEMESTER 4\PRO2\coding\pertemuan 2\multi
e3.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Nama: Jane Doe
Umur: 30
Pekerjaan: Penulis
Gaji: \$5000
Buku: The Book
Genre: Fiksi
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> []

31°C
UV sangat tinggi

14:04
26/03/2023

```
File Edit Selection View Go ... Coding
EXPLORER
CODING
multiple2.py X
pertemuan 2 > multiple2.py > ...
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Hewan:
5     def __init__(self, nama, umur):
6         self.nama = nama
7         self.umur = umur
8     def display_info(self):
9         print(f>Nama: {self.nama}")
10        print(f"Umur: {self.umur}")
11
12 class Reptil:
13     def __init__(self, jenis, habitat):
14         self.jenis = jenis
15         self.habitat = habitat
16     def display_info(self):
17         print(f"Jenis: {self.jenis}")
18         print(f"Habitat: {self.habitat}")
19
20 class Amphibi:
21     def __init__(self, metamorfosis, habitat):
22         self.metamorfosis = metamorfosis
23         self.habitat = habitat
24     def display_info(self):
25         print(f"Metamorfosis: {self.metamorfosis}")
26         print(f"Habitat: {self.habitat}")
27
28 class Katak(Hewan, Reptil, Amphibi):
29     def __init__(self, nama, umur, jenis, habitat, metamorfosis):
30         Hewan.__init__(self, nama, umur)
31         Reptil.__init__(self, jenis, habitat)
32         Amphibi.__init__(self, metamorfosis, habitat)
33     def display_info(self):
34         super().display_info()
35         print(f"Jenis: {self.jenis}")
36         print(f"Habitat: {self.habitat}")
```

PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> python -u "C:\Users\VP\Documents\VO
LIAH\SEMESTER 4\PRO2\coding\pertemuan 2\multi
e2.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Nama: Katak Hijau
Umur: 2
Jenis: Reptil-Amphibi
Habitat: Air
Metamorfosis: Telur
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> []

31°C
UV sangat tinggi

14:03
26/03/2023

The screenshot shows a VS Code editor with a file named `multiple4.py`. The code defines a class hierarchy: `Hewan` (base class), `Mamalia` (inherits from `Hewan`), `Karnivora` (inherits from `Mamalia`), and `Harimau` (inherits from `Karnivora`). The `Harimau` class has attributes `jenis`, `nama`, and `makanan`. The `main` function creates a `Harimau` object and calls `display_info`.

```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Hewan:
5     def __init__(self, jenis):
6         self.jenis = jenis
7     def display_info(self):
8         print(f"Jenis hewan: {self.jenis}")
9
10 class Mamalia(Hewan):
11     def __init__(self, jenis, nama):
12         super().__init__(jenis)
13         self.nama = nama
14     def display_info(self):
15         super().display_info()
16         print(f>Nama mamalia: {self.nama}")
17
18 class Karnivora(Hewan):
19     def __init__(self, jenis, makanan):
20         super().__init__(jenis)
21         self.makanan = makanan
22     def display_info(self):
23         super().display_info()
24         print(f"Jenis makanan: {self.makanan}")
25
26 class Harimau(Mamalia, Karnivora):
27     def __init__(self, jenis, nama, makanan):
28         Mamalia.__init__(self, jenis, nama)
29         Karnivora.__init__(self, jenis, makanan)
30     def display_info(self):
31         super().display_info()
32         print(f"Jenis hewan: {self.jenis}")
33
34 # contoh penggunaan
35 harimau = Harimau("Mamalia", "Harimau Sumatera", "Daging")
36 harimau.display_info()
```

The terminal shows the output of the script and a traceback error:

```
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding> python -u "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple4.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Traceback (most recent call last):
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple4.py", line 35, in <module>
    harimau = Harimau("Mamalia", "Harimau Sumatera", "Daging")
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple4.py", line 28, in __init__
    Mamalia.__init__(self, jenis, nama)
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple4.py", line 12, in __init__
    super().__init__(jenis)
TypeError: Karnivora.__init__() missing 1 required positional argument: 'makanan'
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding>
```

The screenshot shows a VS Code editor with a file named `multiple5.py`. The code defines a class hierarchy: `Person` (base class), `Mahasiswa` (inherits from `Person`), `Alumni` (inherits from `Person`), and `MahasiswaAlumni` (inherits from `Mahasiswa` and `Alumni`). The `MahasiswaAlumni` class has attributes `nama`, `umur`, `jurusan`, and `tahun_lulus`. The `main` function creates a `MahasiswaAlumni` object and calls `display_info`.

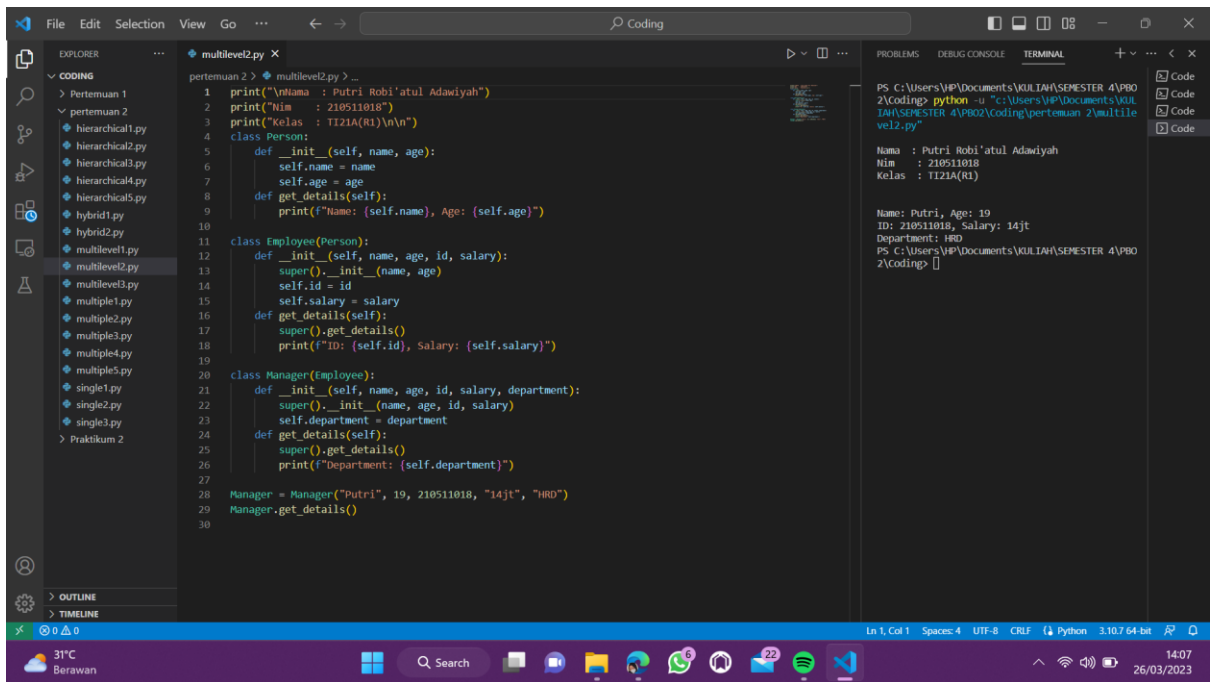
```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Person:
5     def __init__(self, nama, umur):
6         self.nama = nama
7         self.umur = umur
8     def display_info(self):
9         print(f>Nama: {self.nama}")
10        print(f"Umur: {self.umur}")
11
12 class Mahasiswa(Person):
13     def __init__(self, nama, umur, jurusan):
14         super().__init__(nama, umur)
15         self.jurusan = jurusan
16     def display_info(self):
17         super().display_info()
18         print(f"Jurusan: {self.jurusan}")
19
20 class Alumni(Person):
21     def __init__(self, nama, umur, tahun_lulus):
22         super().__init__(nama, umur)
23         self.tahun_lulus = tahun_lulus
24     def display_info(self):
25         super().display_info()
26         print(f"Tahun lulus: {self.tahun_lulus}")
27
28 class MahasiswaAlumni(Mahasiswa, Alumni):
29     def __init__(self, nama, umur, jurusan, tahun_lulus):
30         Mahasiswa.__init__(self, nama, umur, jurusan)
31         Alumni.__init__(self, nama, umur, tahun_lulus)
32     def display_info(self):
33         super().display_info()
34         print(f"Tahun lulus: {self.tahun_lulus}")
35
36 # contoh penggunaan
```

The terminal shows the output of the script and a traceback error:

```
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding> python -u "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple5.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Traceback (most recent call last):
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple5.py", line 37, in <module>
    mahasiswa_alumni = MahasiswaAlumni("Budi", 20, "Informatika", 2022)
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple5.py", line 30, in __init__
    Mahasiswa.__init__(self, nama, umur, jurusan)
  File "C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding\pertemuan 2\multiple5.py", line 14, in __init__
    super().__init__(nama, umur)
TypeError: Alumni.__init__() missing 1 required positional argument: 'tahun_lulus'
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PROG2\Coding>
```

3. Multilevel



```
File Edit Selection View Go ... Coding
EXPLORER multilevel2.py X
CODING
pertemuan 2 > multilevel2.py > ...
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Person:
5     def __init__(self, name, age):
6         self.name = name
7         self.age = age
8     def get_details(self):
9         print(f"Name: {self.name}, Age: {self.age}")
10
11 class Employee(Person):
12     def __init__(self, name, age, id, salary):
13         super().__init__(name, age)
14         self.id = id
15         self.salary = salary
16     def get_details(self):
17         super().get_details()
18         print(f"ID: {self.id}, Salary: {self.salary}")
19
20 class Manager(Employee):
21     def __init__(self, name, age, id, salary, department):
22         super().__init__(name, age, id, salary)
23         self.department = department
24     def get_details(self):
25         super().get_details()
26         print(f"Department: {self.department}")
27
28 Manager = Manager("Putri", 19, 210511018, "14jt", "HRD")
29 Manager.get_details()
30
```

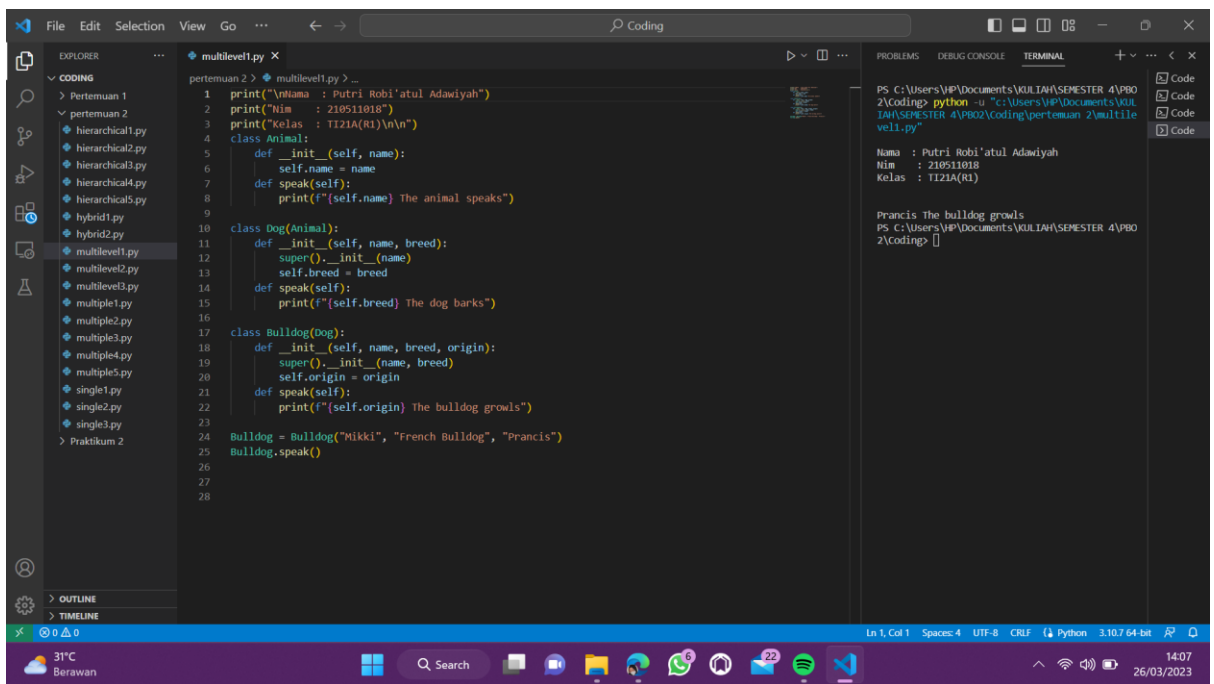
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding> python -u "C:\Users\VP\Documents\KUL
IAH\SEMESTER 4\PRO2\coding\pertemuan 2\multile
vel2.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Name: Putri, Age: 19
ID: 210511018, Salary: 14jt
Department: HRD
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding> []

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit

31°C Berawan 14:07 26/03/2023



```
File Edit Selection View Go ... Coding
EXPLORER multilevel1.py X
CODING
pertemuan 2 > multilevel1.py > ...
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Animal:
5     def __init__(self, name):
6         self.name = name
7     def speak(self):
8         print(f"{self.name} The animal speaks")
9
10 class Dog(Animal):
11     def __init__(self, name, breed):
12         super().__init__(name)
13         self.breed = breed
14     def speak(self):
15         print(f"{self.breed} The dog barks")
16
17 class Bulldog(Dog):
18     def __init__(self, name, breed, origin):
19         super().__init__(name, breed)
20         self.origin = origin
21     def speak(self):
22         print(f"{self.origin} The bulldog growls")
23
24 Bulldog = Bulldog("Mikki", "French Bulldog", "Prancis")
25 Bulldog.speak()
26
27
28
```

PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding> python -u "C:\Users\VP\Documents\KUL
IAH\SEMESTER 4\PRO2\coding\pertemuan 2\multile
vel1.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Prancis the bulldog growls
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding> []

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit

31°C Berawan 14:07 26/03/2023

The screenshot shows a VS Code editor with a file named `multilevel3.py` open. The code defines a class hierarchy: `Animal` is the base class, `Bird` inherits from `Animal`, and `Parrot` inherits from `Bird`. The `Parrot` class has an additional attribute `color`. The code also includes a `__main__` block that creates a `Parrot` object named `Rio` and calls its `speak` and `fly` methods. The terminal on the right shows the output of running the script, which prints the name, ID, and class of the object, and then the output of the `speak` and `fly` methods.

```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Animal:
5     def __init__(self, name):
6         self.name = name
7     def speak(self):
8         print(f"{self.name} speaks")
9
10 class Bird(Animal):
11     def __init__(self, name, wingspan):
12         super().__init__(name)
13         self.wingspan = wingspan
14     def fly(self):
15         print(f"{self.name} is flying with a wingspan of {self.wingspan}")
16
17 class Parrot(Bird):
18     def __init__(self, name, wingspan, color):
19         super().__init__(name, wingspan)
20         self.color = color
21     def speak(self):
22         print(f"{self.name} is a {self.color} parrot that talks")
23
24 parrot = Parrot("Rio", 12, "Blue")
25 parrot.speak() # Output: Rio is a Purple parrot that talks
26 parrot.fly() # Output: Rio is flying with a wingspan of 12
```

Terminal Output:

```
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> python -u "c:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO2\coding\pertemuan 2\multilevel3.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

Rio is a Blue parrot that talks
Rio is flying with a wingspan of 12
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding>
```

4. Hybrid

The screenshot shows a VS Code editor with a file named `hybrid1.py` open. The code defines a class hierarchy: `GameObject` is the base class, `Drawable` inherits from `GameObject`, and `Moveable` inherits from `GameObject`. The `Player` class inherits from both `Drawable` and `Moveable`. The `__main__` block creates a `Player` object named `GameObjectA` and calls its `data` method. The terminal on the right shows the output of running the script, which prints the name, ID, and class of the object, and then the output of the `data` method.

```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 # Single Inheritance
5 class GameObject:
6     def __init__(self, x, y):
7         self.x = x
8         self.y = y
9     def data(self):
10         print(f"{self.x} {self.y}")
11
12 # Single Inheritance
13 class Drawable:
14     def draw(self):
15         print("Drawing object at: ", self.x, self.y)
16
17 # Single Inheritance
18 class Moveable:
19     def move(self, dx, dy):
20         self.x += dx
21         self.y += dy
22
23 # Multiple Inheritance
24 class Player(GameObject, Drawable, Moveable):
25     def __init__(self, x, y):
26         super().__init__(x, y)
27     def update(self):
28         self.move(1, 1)
29     def draw(self):
30         print(f"{self.x} {self.y}")
31
32 GameObjectA = Player(5, 5)
33 GameObjectA.data()
```

Terminal Output:

```
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding> python -u "c:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO2\coding\pertemuan 2\hybrid1.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

5 5
PS C:\Users\VP\Documents\VOULIAH\SEMESTER 4\PRO
2\coding>
```


The screenshot shows a VS Code editor with a file named `hybrid2.py` open. The code defines a base class `Seseorang` and two subclasses: `Mahasiswa` (Single Inheritance) and `Employee` (Single Inheritance). The `__init__` method of `Mahasiswa` is called, but it fails with a `TypeError: Mahasiswa.__init__() missing 1 required positional argument: 'student_id'`. The terminal output shows the command `python -u "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hybrid2.py"` and the resulting error message.

```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Seseorang:
5     def __init__(self, name, age, address):
6         self.name = name
7         self.age = age
8         self.address = address
9     def get_info(self):
10        print("Name:", self.name)
11        print("Age:", self.age)
12        print("Address:", self.address)
13
14 # Single Inheritance
15 class Mahasiswa(Seseorang):
16     def __init__(self, name, age, address, student_id):
17         super().__init__(name, age, address)
18         self.student_id = student_id
19     def get_info(self):
20         super().get_info()
21         print("Student ID:", self.student_id)
22
23 # Single Inheritance
24 class Employee(Seseorang):
25     def __init__(self, name, age, address, employee_id, salary):
26         super().__init__(name, age, address)
27         self.employee_id = employee_id
28         self.salary = salary
29     def get_info(self):
30         super().get_info()
31         print("Employee ID:", self.employee_id)
32         print("Salary:", self.salary)
33
34 # Multiple Inheritance
35 class Penulis(Employee, Mahasiswa):
36     def __init__(self, name, age, address, employee_id, salary, student_id, published_books):
```

Traceback (most recent call last):
File "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hybrid2.py", line 45, in <module>
 Seseorang = Penulis("putri robi'atul adawiyah", 19, "brebes", 12345, "penulis", 210511018, "cantik itu luka")
File "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hybrid2.py", line 38, in __init__
 Employee.__init__(self, name, age, address, employee_id, salary)
File "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hybrid2.py", line 26, in __init__
 super().__init__(name, age, address)
TypeError: Mahasiswa.__init__() missing 1 required positional argument: 'student_id'
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding> [

5. Hierarchical

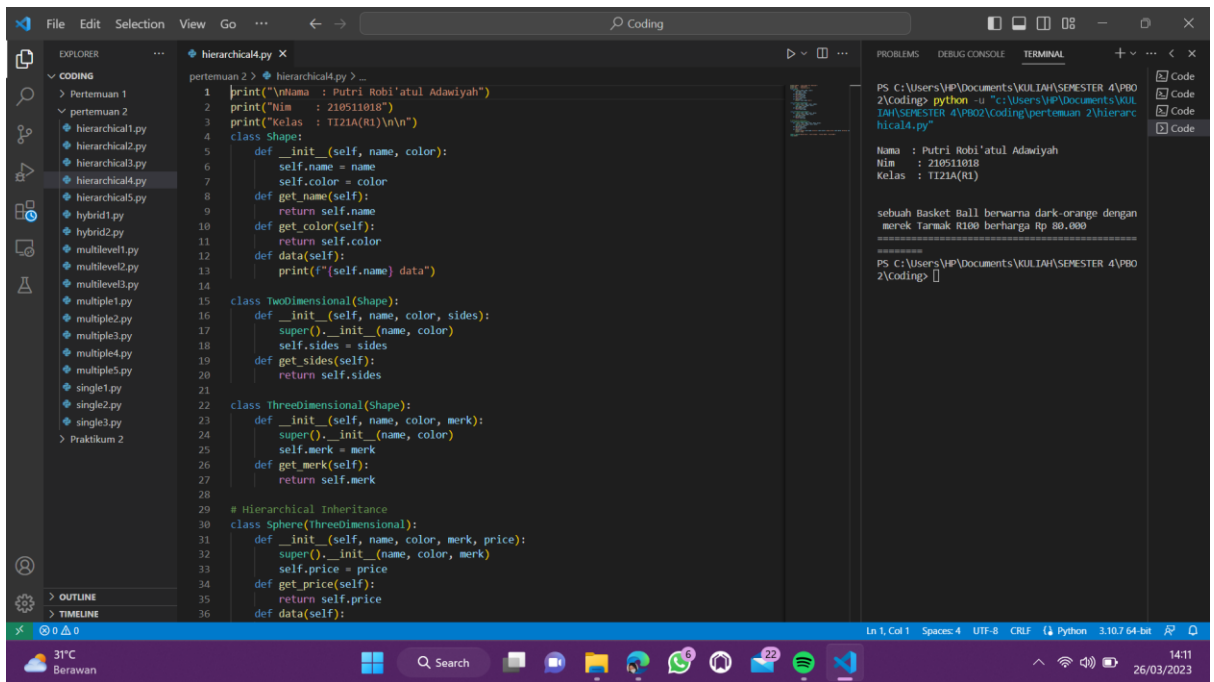
The screenshot shows a VS Code editor with a file named `hierarchical1.py` open. The code defines a base class `Animal` and two subclasses: `Mammal` (Single Inheritance) and `Bird` (Single Inheritance). The `__init__` method of `Mammal` is called, but it fails with a `TypeError: Mammal.__init__() missing 1 required positional argument: 'fur'`. The terminal output shows the command `python -u "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hierarchical1.py"` and the resulting error message.

```
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Animal:
5     def __init__(self, name, color):
6         self.name = name
7         self.color = color
8     def get_name(self):
9         return self.name
10    def get_color(self):
11        return self.color
12    def data(self):
13        print(f"{self.name} data")
14
15 class Mammal(Animal):
16     def __init__(self, name, color, fur):
17         super().__init__(name, color)
18         self.fur = fur
19     def get_fur(self):
20         return self.fur
21
22 class Bird(Animal):
23     def __init__(self, name, color, wingspan):
24         super().__init__(name, color)
25         self.wingspan = wingspan
26     def get_wingspan(self):
27         return self.wingspan
28
29 # Hierarchical Inheritance
30 class Reptile(Mammal):
31     def __init__(self, name, color, fur, weight):
32         super().__init__(name, color, fur)
33         self.weight = weight
34     def get_weight(self):
35         return self.weight
36     def data(self):
```

Traceback (most recent call last):
File "C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding\pertemuan 2\hierarchical1.py", line 17, in __init__
 super().__init__(name, color)
TypeError: Mammal.__init__() missing 1 required positional argument: 'fur'
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PROB2\Coding> [

```
File Edit Selection View Go ... Coding
EXPLORER
CODING
pertemuan 2 > hierarchal2.py
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4 class Employee:
5     def __init__(self, name, age, salary):
6         self.name = name
7         self.age = age
8         self.salary = salary
9     def get_name(self):
10        return self.name
11    def get_age(self):
12        return self.age
13    def get_salary(self):
14        return self.salary
15    def data(self):
16        print(f"{self.name} data")
17
18 class Manager(Employee):
19     def __init__(self, name, age, salary, department):
20         super().__init__(name, age, salary)
21         self.department = department
22     def get_department(self):
23         return self.department
24
25 class Programmer(Employee):
26     def __init__(self, name, age, salary, language):
27         super().__init__(name, age, salary)
28         self.language = language
29     def get_language(self):
30         return self.language
31
32 # Hierarchical Inheritance
33 class SeniorProgrammer(Programmer):
34     def __init__(self, name, age, salary, language, level):
35         super().__init__(name, age, salary, language)
36         self.level = level
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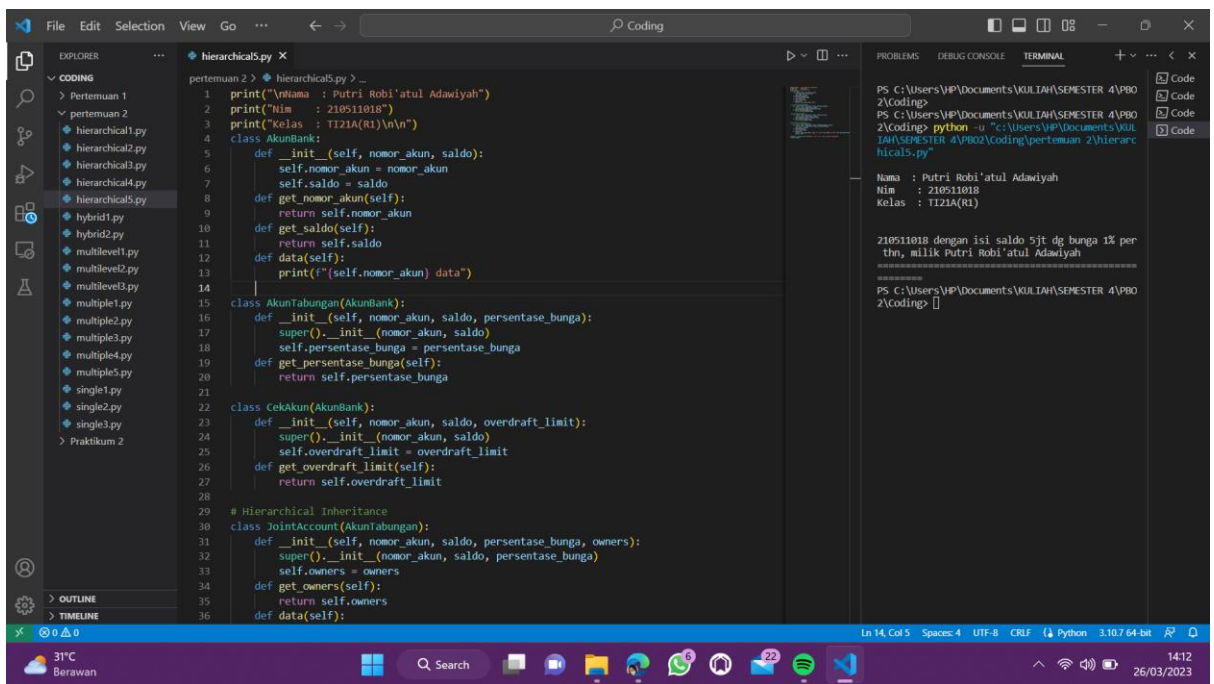



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EXPLORER
CODING
hierarchical4.py
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("\nNim : 210511018")
3 print("\nKelas : TI21A(R1)\n\n")
4 class Shape:
5     def __init__(self, name, color):
6         self.name = name
7         self.color = color
8     def get_name(self):
9         return self.name
10    def get_color(self):
11        return self.color
12    def data(self):
13        print(f"{self.name} data")
14
15    class TwoDimensional(Shape):
16        def __init__(self, name, color, sides):
17            super().__init__(name, color)
18            self.sides = sides
19        def get_sides(self):
20            return self.sides
21
22    class ThreeDimensional(Shape):
23        def __init__(self, name, color, merk):
24            super().__init__(name, color)
25            self.merk = merk
26        def get_merk(self):
27            return self.merk
28
29    # Hierarchical Inheritance
30    class Sphere(ThreeDimensional):
31        def __init__(self, name, color, merk, price):
32            super().__init__(name, color, merk)
33            self.price = price
34        def get_price(self):
35            return self.price
36        def data(self):
37            print(f"{self.name} data")
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2\coding> python -u "C:\Users\VP\Documents\KUL
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hical4.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

sebuah Basket Ball berwarna dark-orange dengan
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PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding>
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EXPLORER
CODING
hierarchical5.py
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("\nNim : 210511018")
3 print("\nKelas : TI21A(R1)\n\n")
4 class AkunBank:
5     def __init__(self, nomor_akun, saldo):
6         self.nomor_akun = nomor_akun
7         self.saldo = saldo
8     def get_nomor_akun(self):
9         return self.nomor_akun
10    def get_saldo(self):
11        return self.saldo
12    def data(self):
13        print(f"{self.nomor_akun} data")
14
15    class AkunTabungan(AkunBank):
16        def __init__(self, nomor_akun, saldo, persentase_bunga):
17            super().__init__(nomor_akun, saldo)
18            self.persentase_bunga = persentase_bunga
19        def get_persentase_bunga(self):
20            return self.persentase_bunga
21
22    class CekKakun(AkunBank):
23        def __init__(self, nomor_akun, saldo, overdraft_limit):
24            super().__init__(nomor_akun, saldo)
25            self.overdraft_limit = overdraft_limit
26        def get_overdraft_limit(self):
27            return self.overdraft_limit
28
29    # Hierarchical Inheritance
30    class JointAccount(AkunTabungan):
31        def __init__(self, nomor_akun, saldo, persentase_bunga, owners):
32            super().__init__(nomor_akun, saldo, persentase_bunga)
33            self.owners = owners
34        def get_owners(self):
35            return self.owners
36        def data(self):
37            print(f"{self.nomor_akun} data")
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2\coding> python -u "C:\Users\VP\Documents\KUL
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hical5.py"

Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)

210511018 dengan isi saldo 5jt dg bunga 1% per
thn, milik Putri Robi'atul Adawiyah
=====
PS C:\Users\VP\Documents\KULIAH\SEMESTER 4\PRO
2\coding>
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