

File Edit Selection View Go Run Terminal Help single1.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

PERTEMUAN2 PBO2

- hierarchical1.py
- hierarchical2.py
- hierarchical3.py
- hybrid1.py
- hybrid2.py
- multilevel1.py
- multilevel2.py
- multilevel3.py
- multiple1.py
- multiple2.py
- multiple3.py
- single1.py
- single2.py
- single3.py
- Tugas 2 PBO2_hanafiyatussamhah_2...

single1.py

```
1 class Hewan:
2     def __init__(self, nama, umur):
3         self.nama = nama
4         self.umur = umur
5     def bergerak(self):
6         print(self.nama, "Menggonggong")
7 class Anjing(Hewan):
8     def __init__(self, nama, umur, jenis_bulu):
9         super().__init__(nama, umur)
10        self.jenis_bulu = jenis_bulu
11    def bersuara(self):
12        print("gog!")
13 AnjingA = Anjing("Anjing", 2, "Bulldog")
14 AnjingA.bergerak() # output: Anjing Menggonggong
15 AnjingA.bersuara() # output: Gog!
```

Python

Windows PowerShell
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PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/PBO SMS TR 4/pertemuan2 PBO2/single1.py"
Anjing Menggonggong
gog!
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 15, Col 34 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

28°C Berawan

Search

16:22 31/03/2023

single2.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

- PERTEMUAN2 PBO2
 - hierarchical1.py
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 - hybrid1.py
 - hybrid2.py
 - multilevel1.py
 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...

single2.py > ...

```
1 class Manusia:
2     def __init__(self, nama, umur):
3         self.nama = nama
4         self.umur = umur
5     def mengajar(self):
6         print(f"{self.nama} sedang mengajar.")
7 class mahasiswa(Manusia):
8     def __init__(self, nama, umur, nim):
9         super().__init__(nama, umur)
10        self.nim = nim
11    def menjelaskan(self):
12        print(f"{self.nama} dengan NIM {self.nim} sedang menjelaskan.")
13 mahasiswaA = mahasiswa("hana", 35, "210511012")
14 mahasiswaA.mengajar() # Output: hana sedang mengajar.
15 mahasiswaA.menjelaskan() # Output: hana dengan NIM 210511012 sedang menjelaskan.
```

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hana sedang mengajar.
hana dengan NIM 210511012 sedang menjelaskan.
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 15, Col 80 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

19:38 31/03/2023

File Edit Selection View Go Run Terminal Help multiple1.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

- PERTEMUAN2 PBO2
 - hierarchical1.py
 - hierarchical2.py
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 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...

multiple1.py > pekerja > __init__

```
1 class dosen:
2     def __init__(self, nama, nim):
3         self.nama = nama
4         self.nim = nim
5     def mengajar(self):
6         print(self.nama, "sedang mengajar")
7
8 class pekerja:
9     def __init__(self, nama, pekerjaan):
10        self.nama = nama
11        self.pekerjaan = pekerjaan
12    def bekerja(self):
13        print(self.nama, "sedang bekerja")
14
15 class dosenPekerja(dosen, pekerja):
16     def __init__(self, nama, nim, Pekerjaan):
17         dosen.__init__(self, nama, nim)
18         pekerja.__init__(self, nama, pekerjaan)
19     def bersosialisasi(self):
20         print(self.nama, "sedang bersosialisasi")
21 dosen_pekerja = dosenPekerja("hana", "210511012", "Informatika")
22 dosen_pekerja.mengajar() # output: hana sedang mengajar
23 dosen_pekerja.bekerja() # output: hana sedang bekerja
24 dosen_pekerja.bersosialisasi() # output: hana sedang bersosialisasi
25
```

TERMINAL

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hana sedang mengajar
hana sedang bekerja
hana sedang bersosialisasi
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 9, Col 41 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah 13:10 02/04/2023

multiple2.py - pertemuan2 PBO2 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

single1.py single2.py multiple1.py multilevel3.py multiple2.py X

EXPLORER

PERTEMUAN2 PBO2

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- single1.py
- single2.py
- single3.py
- Tugas 2 PBO2_hanafi...

multiple2.py > ...

```
1 print(r"Umur: {self.umur}")
2
3 class Reptil:
4     def __init__(self, jenis, habitat):
5         self.jenis = jenis
6         self.habitat = habitat
7     def display_info(self):
8         print(f"Jenis: {self.jenis}")
9         print(f"Habitat: {self.habitat}")
10
11 class Amphibi:
12     def __init__(self, metamorfosis, habitat):
13         self.metamorfosis = metamorfosis
14         self.habitat = habitat
15     def display_info(self):
16         print(f"Metamorfosis: {self.metamorfosis}")
17         print(f"Habitat: {self.habitat}")
18
19 class Katak(Hewan, Reptil, Amphibi):
20     def __init__(self, nama, umur, jenis, habitat, metamorfosis):
21         Hewan.__init__(self, nama, umur)
22         Reptil.__init__(self, jenis, habitat)
23         Amphibi.__init__(self, metamorfosis, habitat)
24     def display_info(self):
25         super().display_info()
26         print(f"Jenis: {self.jenis}")
27         print(f"Habitat: {self.habitat}")
28         print(f"Metamorfosis: {self.metamorfosis}")
29
30 # contoh penggunaan
31 KatakA = Katak("Chordata", 2, "Reptil-Amphibi", "Air Tawar", "Telur")
32 KatakA.display_info()
33
34
35
```

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Nama: Chordata
Umur: 2
Jenis: Reptil-Amphibi
Habitat: Air Tawar
Metamorfosis: Telur
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 33, Col 25 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah

Search

13:15 02/04/2023

File Edit Selection View Go Run Terminal Help multilevel1.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

- PERTEMUAN2 PBO2
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 - multilevel1.py
 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...
- OUTLINE
- TIMELINE

multilevel1.py > Cat

```
1 class Animal:
2     def __init__(self, name):
3         self.name = name
4     def speak(self):
5         print(f"{self.name} The animal speaks")
6
7 class Cat[Animal]:
8     def __init__(self, name, breed):
9         super().__init__(name)
10        self.breed = breed
11    def bark(self):
12        print(f"{self.breed} The Anggora barks")
13
14 class Anggora(Cat):
15     def __init__(self, name, breed, origin):
16         super().__init__(name, breed)
17         self.origin = origin
18     def grow(self):
19         print(f"{self.origin} The anggora growls")
20
21 anggora = Anggora("Cat", "French anggora", "Asia")
22 anggora.speak()
23 anggora.bark()
24 anggora.grow()
25
```

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Cat The animal speaks
French anggora The Anggora barks
Asia The anggora growls
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 7, Col 10 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

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File Edit Selection View Go Run Terminal Help multilevel2.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

PERTEMUAN2 PBO2

- hierarchical1.py
- hierarchical2.py
- hierarchical3.py
- hybrid1.py
- hybrid2.py
- multilevel1.py
- multilevel2.py**
- multilevel3.py
- multiple1.py
- multiple2.py
- multiple3.py
- single1.py
- single2.py
- single3.py
- Tugas 2 PBO2_hanafi...

multilevel2.py > ...

```
1 class Person:
2     def __init__(self, name, age):
3         self.name = name
4         self.age = age
5     def get_details(self):
6         print(f"Name: {self.name}, Age: {self.age}")
7 class Employee(Person):
8     def __init__(self, name, age, id, salary):
9         super().__init__(name, age)
10        self.id = id
11        self.salary = salary
12    def get_details(self):
13        super().get_details()
14        print(f"ID: {self.id}, Salary: {self.salary}")
15 class Bendahara(Employee):
16     def __init__(self, name, age, id, salary, department):
17         super().__init__(name, age, id, salary)
18         self.department = department
19     def get_details(self):
20         super().get_details()
21         print(f"Department: {self.department}")
22 Bendahara = Bendahara("Hana", 14, 210511012, "14jt", "HRD")
23 Bendahara.get_details()
24
```

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Python

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Name: Hana, Age: 14
ID: 210511012, Salary: 14jt
Department: HRD
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

0 0 0 Ln 24, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah 13:29 02/04/2023

hybrid1.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

- PERTEMUAN2 PBO2
 - hierarchical1.py
 - hierarchical2.py
 - hierarchical3.py
 - hybrid1.py
 - hybrid2.py
 - multilevel1.py
 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...
- OUTLINE
- TIMELINE

hybrid1.py > ...

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

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5 5

PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah 13:30 02/04/2023

hybrid2.py - pertemuan2 PBO2 - Visual Studio Code

EXPLORER

- PERTEMUAN2 PBO2
 - hierarchical1.py
 - hierarchical2.py
 - hierarchical3.py
 - hybrid1.py
 - hybrid2.py
 - multilevel1.py
 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...

hybrid2.py > Seseorang

```
1 class Seseorang:
2     def __init__(self, name, age, address):
3         self.name = name
4         self.age = age
5         self.address = address
6     def get_info(self):
7         print("Name:", self.name)
8         print("Age:", self.age)
9         print("Address:", self.address)
10
11 # Single Inheritance
12 class Mahasiswa(Seseorang):
13     def __init__(self, name, age, address, student_id):
14         super().__init__(name, age, address)
15         self.student_id = student_id
16     def get_info(self):
17         super().get_info()
18         print("Student ID:", self.student_id)
19
20 # Single Inheritance
21 class Employee(Seseorang):
22     def __init__(self, name, age, address, employee_id, salary):
23         super().__init__(name, age, address)
24         self.employee_id = employee_id
25         self.salary = salary
26     def get_info(self):
27         super().get_info()
28         print("Employee ID:", self.employee_id)
29         print("Salary:", self.salary)
30
```

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Traceback (most recent call last):
File "c:\Users\lenovo\Documents\PBO SMSTR 4\pertemuan2 PBO2\hybrid2.py", line 42, in <module>
SeseorangA = Penulis("putri robi 'atul adawiyah", 19, "brebes", 12345, "penulis", 210511018, "cantik itu luka")
File "c:\Users\lenovo\Documents\PBO SMSTR 4\pertemuan2 PBO2\hybrid2.py", line 35, in __init__
Employee.__init__(self, name, age, address, employee_id, salary)
File "c:\Users\lenovo\Documents\PBO SMSTR 4\pertemuan2 PBO2\hybrid2.py", line 23, in __init__
super().__init__(name, age, address)
TypeError: Mahasiswa.__init__() missing 1 required positional argument: 'student_id'

PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah 13:31 02/04/2023

Visual Studio Code interface showing a Python file named `hierarchical1.py` with a class hierarchy for inheritance.

EXPLORER

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 - multilevel2.py
 - multilevel3.py
 - multiple1.py
 - multiple2.py
 - multiple3.py
 - single1.py
 - single2.py
 - single3.py
 - Tugas 2 PBO2_hanafi...

hierarchical1.py

```
10 print(f'{self.name} data')
11
12 class Mammal(Animal):
13     def __init__(self, name, color, fur):
14         super().__init__(name, color)
15         self.fur = fur
16     def get_fur(self):
17         return self.fur
18
19 class Bird(Animal):
20     def __init__(self, name, color, wingspan):
21         super().__init__(name, color)
22         self.wingspan = wingspan
23     def get_wingspan(self):
24         return self.wingspan
25
26 # Hierarchical Inheritance
27 class Reptile(Mammal):
28     def __init__(self, name, color, fur, Weight):
29         super().__init__(name, color, fur)
30         self.Weight = Weight
31     def get_Weight(self):
32         return self.Weight
33     def data(self):
34         print(f'{self.name} Berwarna {self.color} tipe bulu {self.fur} dengan be
35         print("="*54)
36
37 Mammal = Reptile("Dog", "Black", "Bicolor", "4.9 kg")
38 Mammal.data()
```

Terminal

```
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PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/PBO SMS TR 4/pertemuan2 PBO2/hierarchical1.py"
Dog Berwarna Black tipe bulu Bicolor dengan berat 4.9 kg
=====
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>
```

Bottom Bar

Ln 37, Col 47 Spaces: 4 UTF-8 CRLF Python 3.10.0rc2 64-bit

27°C Sebagian cerah 13:35 02/04/2023

Visual Studio Code interface showing a Python file named `hierarchichal2.py` (note the typo) in the Explorer pane. The file contains a class hierarchy for hierarchical inheritance.

```
14
15 class Manager(Employee):
16     def __init__(self, name, age, salary, department):
17         super().__init__(name, age, salary)
18         self.department = department
19     def get_department(self):
20         return self.department
21
22 class Programmer(Employee):
23     def __init__(self, name, age, salary, language):
24         super().__init__(name, age, salary)
25         self.language = language
26     def get_language(self):
27         return self.language
28
29 # Hierarchical Inheritance
30 class SeniorProgrammer(Programmer):
31     def __init__(self, name, age, salary, language, level):
32         super().__init__(name, age, salary, language)
33         self.level = level
34     def get_level(self):
35         return self.level
36     def data(self):
37         print(f"{self.name} Berumur {self.age} th berpenghasilan Rp {self.salary}")
38         print("="*54)
39
40 Programmer = SeniorProgrammer("Hanafiyatussamhah", 14, "14jt", "Python", 2)
41 Programmer.data()
42
```

The Terminal pane shows the output of running the script:

```
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Hanafiyatussamhah Berumur 14 th berpenghasilan Rp 14jt /Bulan, menggunakan bahasa Python Level 2
=====
PS C:\Users\lenovo\Documents\PBO SMS TR 4\pertemuan2 PBO2>
```

The status bar at the bottom indicates the current position is Line 40, Column 54, with 4 spaces, UTF-8 encoding, and CRLF line endings. The system tray shows the temperature is 27°C and the date is 02/04/2023.