



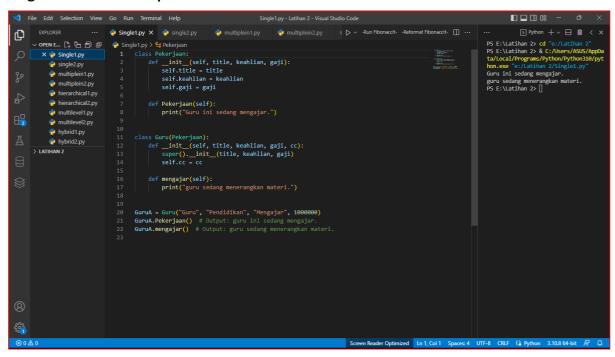
 Single Inheritance (Pewarisan Tunggal) print ("Nama: Wira Cantika") print ("NIM: 210511171")

print ("Kelas: K1 Teknik Informatika")
print ("-----")

### Single Inheritance Input 1

```
class Pekerjaan:
   def __init__(self, title, keahlian, gaji):
        self.title = title
        self.keahlian = keahlian
        self.gaji = gaji
   def Pekerjaan(self):
        print("Guru ini sedang mengajar.")
class Guru(Pekerjaan):
   def __init__(self, title, keahlian, gaji, cc):
        super().__init__(title, keahlian, gaji)
        self.cc = cc
   def mengajar(self):
        print("guru sedang menerangkan materi.")
GuruA = Guru("Guru", "Pendidikan", "Mengajar", 1000000)
GuruA.Pekerjaan() # Output: guru ini sedang mengajar.
GuruA.mengajar() # Output: guru sedang menerangkan materi.
```

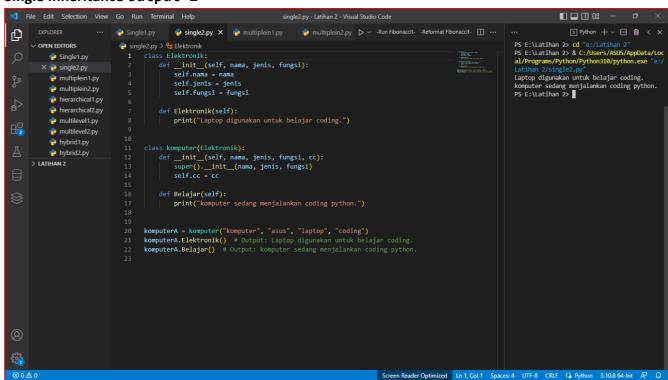
### Single Inheritance Output 1



### Single Inheritance Input 2

```
class Elektronik:
    def __init__(self, nama, jenis, fungsi):
        self.nama = nama
        self.jenis = jenis
        self.fungsi = fungsi
    def Elektronik(self):
        print("Laptop digunakan untuk belajar coding.")
class komputer(Elektronik):
    def __init__(self, nama, jenis, fungsi, cc):
        super().__init__(nama, jenis, fungsi)
        self.cc = cc
   def Belajar(self):
        print("komputer sedang menjalankan coding python.")
komputerA = komputer("komputer", "asus", "laptop", "coding")
komputerA.Elektronik() # Output: Laptop digunakan untuk belajar coding.
komputerA.Belajar() # Output: komputer sedang menjalankan coding python.
```

### Single Inheritance Output 2



2. Multiple inheritance (Pewarisan Ganda)

### Multiple inheritance Input 1

```
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 hobi:
   def __init__(self, keahlian, rutinitas):
        self.keahlian = keahlian
        self.rutinitas = rutinitas
    def display_info(self):
        print(f"Keahliam: {self.keahlian}")
        print(f"Rutinitas: {self.rutinitas}")
class pemusik:
   def __init__(self, tema, genre):
       self.tema = tema
        self.genre = genre
   def display info(self):
        print(f"Tema: {self.tema}")
        print(f"Genre: {self.genre}")
class pemusikhobi(Orang, hobi, pemusik):
    def __init__(self, nama, umur, keahlian, rutinitas, tema, genre):
        Orang.__init__(self, nama, umur)
        hobi.__init__(self, keahlian, rutinitas)
        pemusik. init (self, tema, genre)
    def display_info(self):
        super().display info()
        print(f"Keahlian: {self.keahlian}")
        print(f"Rutinitas: {self.rutinitas}")
        print(f"Tema: {self.tema}")
        print(f"Genre: {self.genre}")
# contoh penggunaan
pemusik_hobiC = pemusikhobi("judika", 35, "bermusik", "aransemen", "Romance", "POP")
pemusik_hobiC.display_info()
```

#### Multiple inheritance Output 1

```
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                                                                                   ··· 🍦 Single1.py 🐤 single2.py 🥏 multiplein1.py 🗴 🍦 multiplein2.py 🔈 - Run Fibonaccit - Reformat Fibonaccit - III ··· ··
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Single2,py
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al/Programs/Python/Python310/python.exe "e:/
Latihan 2/multiplein1.py"
                                                                                                       🐡 multiplein1.py > 😭 Orang
                                                                                                                          Nama: judika
Umur: 35
Keahlian: bermusik
Rutinitas: aranseme
                                                                                                                                               def display_info(self):
                                      hierarchical2.py
                                                                                                                                                         print(f"Nama: {self.nama}")
print(f"Umur: {self.umur}")
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tema: Romance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Genre: POP
PS E:\Latihan 2>
                                     hybrid1.py
hybrid2.py
                                                                                                                                                       def __init__(self, keahlian, rutinitas):
    self.keahlian = keahlian
    self.rutinitas = rutinitas
                     > LATIHAN 2
                                                                                                                                                         def display_info(self):
    print(f"Keahliam: {self.keahlian}")
    print(f"Rutinitas: {self.rutinitas}")
                                                                                                                                              class pemusik:
    def __init__(self, tema, genre):
                                                                                                                                                                       self.tema = tema
self.genre = genre
                                                                                                                                                           def display_info(self):
                                                                                                                                                                           print(f"Tema: {self.tema}")
print(f"Genre: {self.genre}")
                                                                                                                                             class pemusikhobi(Orang, hobi, pemusik):

def __init__(self, nama, umur, keahlian, rutinitas, tema, genre):

Orang.__init__(self, nama, umur)

hobi.__init__(self, temhlian, rutinitas)

nomusik__init__(self, tema__nenre)
                                                                                                                                                                                                                                                                                                                                                                                                                   Screen Reader Optimized Ln 1, Col 1 Spaces: 4 UTF-8 CRLF ( Python
```

### Multiple inheritance Input 2

```
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 ayah:
    def __init__(self, Nama, negara):
        self.Nama = Nama
        self.negara = negara
    def display_info(self):
        print(f"Nama: {self.Nama}")
        print(f"Negara: {self.negara}")
class ibu:
    def __init__(self, naMa, Negara):
        self.naMa = naMa
        self.Negara = Negara
    def display info(self):
        print(f"Nama: {self.naMa}")
        print(f"Negara: {self.Negara}")
```

```
class Kewarganegaraan(Orang, ayah, ibu):
    def __init__(self, nama, umur, Nama, negara, naMa, Negara):
        Orang.__init__(self, nama, umur)
        ayah.__init__(self, Nama, negara)
        ibu.__init__(self, naMa, Negara)

def display_info(self):
        super().display_info()
        print(f"Nama: {self.Nama}")
        print(f"Negara: {self.negara}")
        print(f"Negara: {self.negara}")

        print(f"Negara: {self.Negara}")

# contoh penggunaan
ayah_ibuC = Kewarganegaraan("steven", 22, "Ayah", "Denmark", "Ibu", "Indonesian")
ayah_ibuC.display_info()
```

Multiple inheritance Output 2

```
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                                                                  single2.py
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al/Programs/Python/Python310/python.exe "e:/
Latihan 2/multiplein2.py"
         v OPEN E... 🖺 🕒 🖆 🗟 🕴 multiplein2.py > 😭 Orang
                                                  <code-block> single2.py</code>
                multiplein1.py
                                                                                                                                                                                                                            Nama: steven
            multiplein1.py

× multiplein2.py
                                                                                                                                                                                                                           Umur: 22
Nama: Ayah
Negara: Denmark
                hierarchical1.py
                                                            def display_info(self):
                                                                                                                                                                                                                            Nama: Ibu
Negara: Indonesian
PS E:\Latihan 2>
                                                           print(f"Nama: {self.nama}")
print(f"Umur: {self.umur}")
                 e multilevel2.py
                🌳 hybrid1.py
                🔷 hybrid2.py
                                                                def __init__(self, Nama, negara):
    self.Nama = Nama
        > LATIHAN 2
                                                                      self.negara = negara
                                                              def display_info(self):
    print(f"Nama: {self.Nama}")
    print(f"Negara: {self.negara}")
                                                               def __init__(self, naMa, Negara):
    self.naMa = naMa
    self.Negara = Negara
                                                                  print(f"Nama: {self.naMa}")
print(f"Negara: {self.Negara}")
                                                         class Kewarganegaraan(Orang, ayah, ibu):

def __init__(self, nama, umur, Nama, negara, naMa, Negara):
    Orang.__init__(self, nama, umur)
    ayah.__init__(self, Nama, negara)
    ibu__init__(self, NaMa__Negara)
```

3. Hierarchical inheritance (Pewarisan Hirarki)

# Hierarchical inheritance Input 1

```
class orang:
    def __init__(self, name, umur):
        self.name = name
        self.umur = umur
    def get name(self):
        return self.name
    def get_umur(self):
        return self.umur
class ayah(orang):
   def __init__(self, name, umur, negara):
        super().__init__(name, umur)
        self.negara = negara
   def get_negara(self):
        return self.negara
class ibu(orang):
   def __init__(self, name, color, negara):
        super().__init__(name, color)
        self.negara = negara
    def get_negara(self):
        return self.negara
# Hierarchical Inheritance
class kewarganegaraan(ayah):
   def __init__(self, name, color, negara, umur):
        super().__init__(name, color, negara)
        self.umur = umur
    def get_umur(self):
        return self.umur
```

### **Hierarchical inheritance Output 1**

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PS E:\Latihan 2> cd "e:/Latihan 2"
PS E:\Latihan 2> & C:/Users/ASUS/AppData/Loc al/Programs/Python/Python310/python.exe "e:/Latihan 2/hierarchical1.py"
PS E:\Latihan 2> []

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          Single1.py
single2.py
             multiplein1.py
                                               def get_negara(self):
return self.negara
            multiplein2.py
          × • hierarchical1.py 19
            🙌 hierarchical2.py
            🗬 multilevel1.py
                                       multilevel1.py
multilevel2.py
hybrid1.py
hybrid2.py
                                                   def get_negara(self):
    return self.negara
                                               class kewarganegaraan(ayah):
    def __init__(self, name, color, negara, umur):
        super().__init__(name, color, negara)
        self.umur = umur
                                                   def get_umur(self):
    return self.umur
                                                                                                                                   Screen Reader Optimized Ln 25, Col 29 Spaces: 4 UTF-8 CRLF () Python 3.10.8 64-bit R Q
```

# Hierarchical inheritance Input 2

```
class Elektronik:
    def __init__(self, nama):
        self.nama = nama
    def get_nama(self):
        return self.nama
class laptop(Elektronik):
    def __init__(self, nama, merek):
        super().__init__(nama)
        self.merek = merek
   def get_merek(self):
        return self.merek
class Martphone(Elektronik):
    def __init__(self, nama, tipe):
        super().__init__(nama)
        self.tipe = tipe
    def get_tipe(self):
        return self.tipe
# turunan Hierarchical Inheritance
class asus(laptop):
   def __init__(self, nama, merek, Ram):
```

```
super().__init__(nama, merek)
self.Ram = Ram

def get_Ram(self):
    return self.Ram
```

### Hierarchical inheritance Output 2

4. Multi-level Inheritance (Pewarisan Bertingkat)

### Multi-level Inheritance Input 1

```
class orang:
    def __init__(self, name):
        self.name = name
    def profesi(self):
        print(f"{self.name} profesi")
class ayah(orang):
   def __init__(self, name, umur):
        super().__init__(name)
        self.umur = umur
    def Pekerjaan(self):
        print(f"{self.name} seorang guru umur {self.umur}")
class ibu(ayah):
   def __init__(self, name, umur, negara):
        super().__init__(name, umur)
        self.negara = negara
    def profesi(self):
        print(f"{self.name} bernegara {self.negara} adalah guru matematika")
ibu = ibu("Rio", 45, "Denmak")
ibu.Pekerjaan() # Output: Rio Guru matematika
ibu.profesi() # Output: Rio ayah seorang guru
```

#### Multi-level Inheritance Output 1

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                                 ··· 👘 hierarchical2.py
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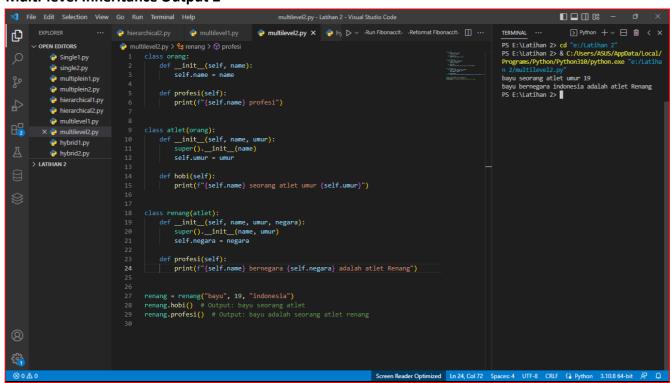
                                              🍦 multilevel1.py > 😭 ayah > 😯 Pekerjaan
                                           1 class orang:
2 def __init__(self, name):
3 self.name = name
4 def profesi(self):
             Single1.py
               <code-block> single2.py</code>
                                                                                                                                                                                                                 n Z/multileveli.py
Rio seorang guru umur 45
Rio bernegara Denmak adalah guru matematika
PS E:\Latihan 2>
               e multiplein2.py
               hierarchical1.py
              hierarchical2.py
            × 🔁 multilevel1.py
                                                       class ayan(orang):
    def __init__(self, name, umur):
        super().__init__(name)
        self.umur = umur
    def Pekerjaan(self):
        print(f"(self.name) seorang guru umur {self.umur}")
              e multilevel2.py
              hybrid1.py
         > LATIHAN 2
                                                      class ibu(ayah):
    def _init__(self, name, umur, negara):
        super()._init__(name, umur)
        self.negara = negara
                                                                     print(f"{self.name} bernegara {self.negara} adalah guru matematika")
                                                ibu.Pekerjaan() # Output: Rio ayah seorang guru

ibu.profesi() # Output: Rio ayah seorang guru
                                                                                                                                                           Screen Reader Optimized Ln 13, Col 46 Spaces: 4 UTF-8 CRLF ( Python 3.10.8 64-bit 尽
```

#### Multi-level Inheritance Input 2

```
class orang:
   def __init__(self, name):
       self.name = name
   def profesi(self):
        print(f"{self.name} profesi")
class atlet(orang):
   def __init__(self, name, umur):
        super().__init__(name)
        self.umur = umur
   def hobi(self):
        print(f"{self.name} seorang atlet umur {self.umur}")
class renang(atlet):
   def __init__(self, name, umur, negara):
        super().__init__(name, umur)
        self.negara = negara
   def profesi(self):
        print(f"{self.name} bernegara {self.negara} adalah atlet Renang")
renang = renang("bayu", 19, "indonesia")
renang.hobi() # Output: bayu seorang atlet
renang.profesi() # Output: bayu adalah seorang atlet renang
```

### Multi-level Inheritance Output 2



5. Hybrid Inheritance (Pewarisan Campuran)

# **Hybrid Inheritance Input 1**

```
class Seseorang:
   def __init__(self, name, age, address):
       self.name = name
       self.age = age
        self.address = address
   def get info(self):
        print("Name:", self.name)
        print("Age:", self.age)
        print("Address:", self.address)
# Single Inheritance
class Perawat(Seseorang):
   def __init__(self, name, age, address, nip):
        super().__init__(name, age, address)
        self.nip = nip
   def get_info(self):
        super().get_info()
        print("Student ID:", self.nip)
# Single Inheritance
class dokter(Seseorang):
   def __init__(self, name, age, address, nip, Tempatkerja):
        super().__init__(name, age, address)
        self.nip = nip
        self.Tempatkerja = Tempatkerja
   def get_info(self):
        super().get_info()
        print("NIP:", self.nip)
        print("Tempatkerja:", self.Tempatkerja)
class bidan(Perawat, dokter):
   def __init__(self, name, age, address, nip, Tempatkerja, Nip, gelar):
        dokter.__init__(self, name, age, address, nip, Tempatkerja)
        Perawat.__init__(self, name, age, address, nip)
        self.gelar = gelar
   def get_info(self):
        super().get_info()
        print("NIP:", self.nip)
        print("Gelar:", self.gelar)
```

**Hybrid Inheritance Output 1** 

```
multilevel2.py 🙀 hybrid1.py 🗶 👂 -Run Fibonaccit- -Reformat Fibonaccit- 📗 ...
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PS E:\Latihan 2> & C:/Users/ASUS/AppData/Local/
Programs/Python/Python310/python.exe "e:/Latiha

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             class Seseorang:

def __init__(self, name, age, address):
    self.name = name
    self.age = age
    self.address = address
                                                                                                                                                                                                             n 2/hybrid1.py"
PS E:\Latihan 2>
              nierarchical1.py
                                                          def get_info(self):
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p multilevell.py
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p print( Augr
10
p hybrid1.py
11
p hybrid2.py
12 # Single Inheritance
13
14
                                                         print("Name:", self.name)
print("Age:", self.age)
print("Address:", self.address)
            🗙 🧽 hybrid1.py
        > LATIHAN 2
                                                     class Perawat(Seseorang):
    def __init__(self, name, age, address, nip):
        super().__init__(name, age, address)
        self.nip = nip
                                                             def get_info(self):
                                                                  super().get_info()
print("Student ID:", self.nip)
                                                             def __init__(self, name, age, address, nip, Tempatkerja):
    super().__init__(name, age, address)
    self.nip = nip
                                                                   self.Tempatkerja = Tempatkerja
                                                             def get_info(self):
                                                                super().get_info()
                                                                                                                                                         Screen Reader Optimized Ln 51, Col 1 Spaces: 4 UTF-8 CRLF ( Python 3.10.8 64-bit 尽 Q
```

# **Hybrid Inheritance Input 2**

```
class tumbuhan:
   def __init__(self, name, struktur, jenis):
        self.name = name
        self.struktur = struktur
        self.jenis = jenis
   def get_info(self):
        print("Name:", self.name)
        print("Struktur:", self.struktur)
        print("jenis:", self.jenis)
# Single Inheritance
class akar(tumbuhan):
   def __init__(self, epidermis, korteks, endodermis, stele):
        super().__init__(epidermis, korteks, endodermis)
        self.stele = stele
   def get_info(self):
        super().get_info()
        print("Student ID:", self.stele)
# Single Inheritance
class batang(tumbuhan):
```

```
def __init__(self, epidermis, korteks, bekaspengangkut, stele):
       super().__init__(epidermis, korteks, bekaspengangkut)
        self.bekaspengangkut = bekaspengangkut
        self.stele = stele
   def get info(self):
       super().get_info()
       print("Bekas Pengangkut:", self.bekaspengangkut)
       print("Stele:", self.stele)
# Multiple Inheritance
class daun(akar, batang):
   def __init__(self, epidermis, korteks, endodermis, bekaspengangkut, stele, jenis):
       batang.__init__(self, epidermis, korteks, bekaspengangkut, stele)
       akar.__init__(self, epidermis, korteks, endodermis, stele)
       self.jenis = jenis
   def get_info(self):
       super().get_info()
       print("NIP:", self.stele)
        print("Gelar:", self.jenis)
```

# **Hybrid Inheritance Output 2**

