LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

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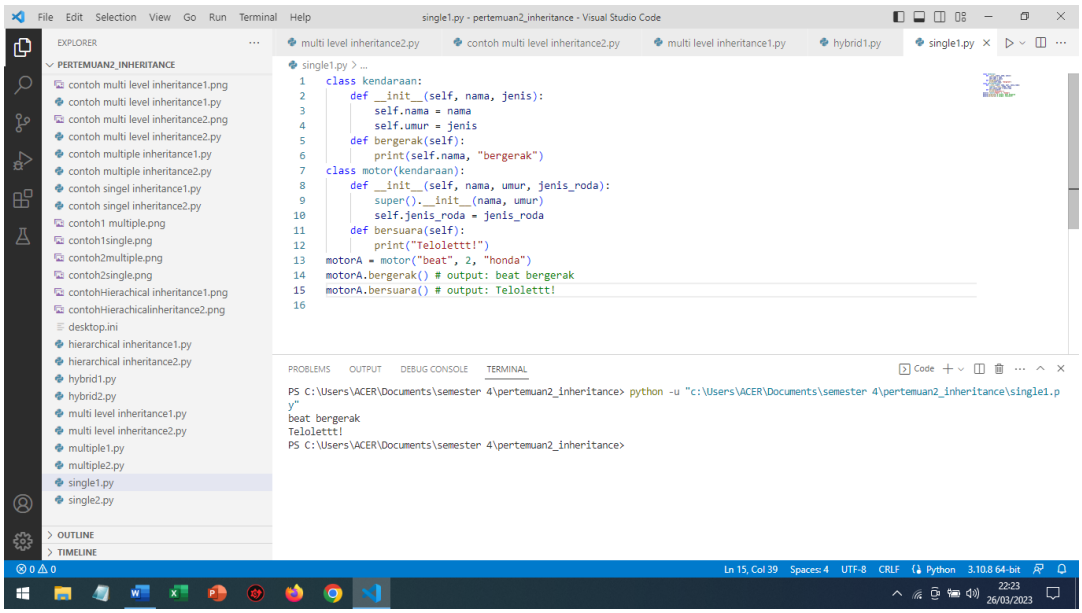
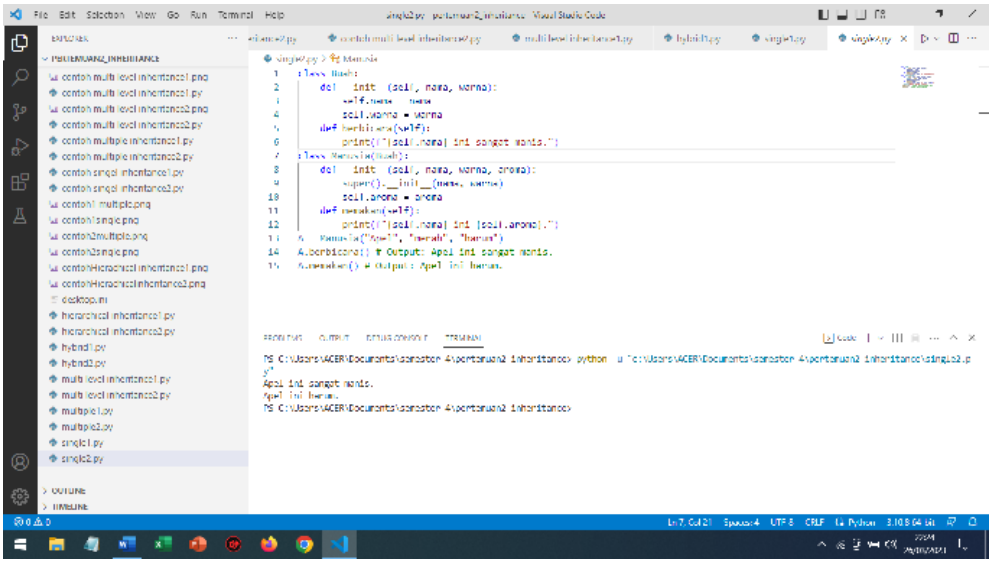
1. Singel1.py

```
2.  class kendaraan:
3.      def __init__(self, nama, jenis):
4.          self.nama = nama
5.          self.umur = jenis
6.      def bergerak(self):
7.          print(self.nama, "bergerak")
8.  class motor(kendaraan):
9.      def __init__(self, nama, umur, jenis_roda):
10.         super().__init__(nama, umur)
11.         self.jenis_roda = jenis_roda
12.     def bersuara(self):
13.         print("Telolettt!")
14. motorA = motor("beat", 2, "honda")
15. motorA.bergerak() # output: beat bergerak
16. motorA.bersuara() # output: Telolettt!
17.
```



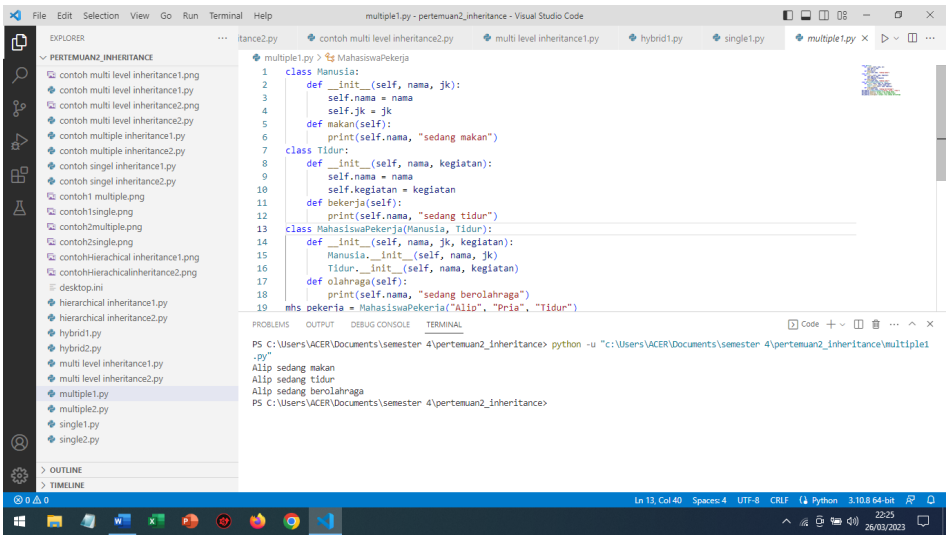
Singel2.py

```python
class Buah:
    def __init__(self, nama, warna):
        self.nama = nama
        self.warna = warna
    def berbicara(self):
        print(f"{self.nama} ini sangat manis.")
class Manusia(Buah):
    def __init__(self, nama, warna, aroma):
        super().__init__(nama, warna)
        self.aroma = aroma
    def memakan(self):
        print(f"{self.nama} ini {self.aroma}.")
A = Manusia("Apel", "merah", "harum")
A.berbicara() # Output: Apel ini sangat manis.
A.memakan() # Output: Apel ini harum.
```



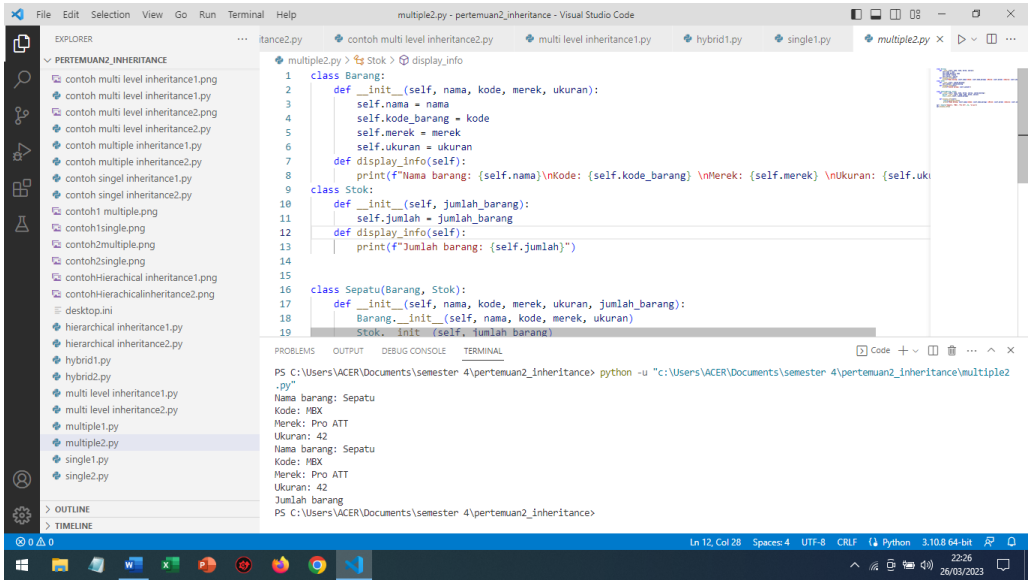
2. multiple1.py

```python
class Manusia:
    def __init__(self, nama, jk):
        self.nama = nama
        self.jk = jk
    def makan(self):
        print(self.nama, "sedang makan")
class Tidur:
    def __init__(self, nama, kegiatan):
        self.nama = nama
        self.kegiatan = kegiatan
    def bekerja(self):
        print(self.nama, "sedang tidur")
class MahasiswaPekerja(Manusia, Tidur):
    def __init__(self, nama, jk, kegiatan):
        Manusia.__init__(self, nama, jk)
        Tidur.__init__(self, nama, kegiatan)
    def olahraga(self):
        print(self.nama, "sedang berolahraga")
mhs_pekerja = MahasiswaPekerja("Alip", "Pria", "Tidur")
mhs_pekerja.makan() # output: Alip sedang makan
mhs_pekerja.bekerja() # output: Alip sedang tidur
mhs_pekerja.olahraga() # output: Alip sedang berolahraga
```



Multiple2.py

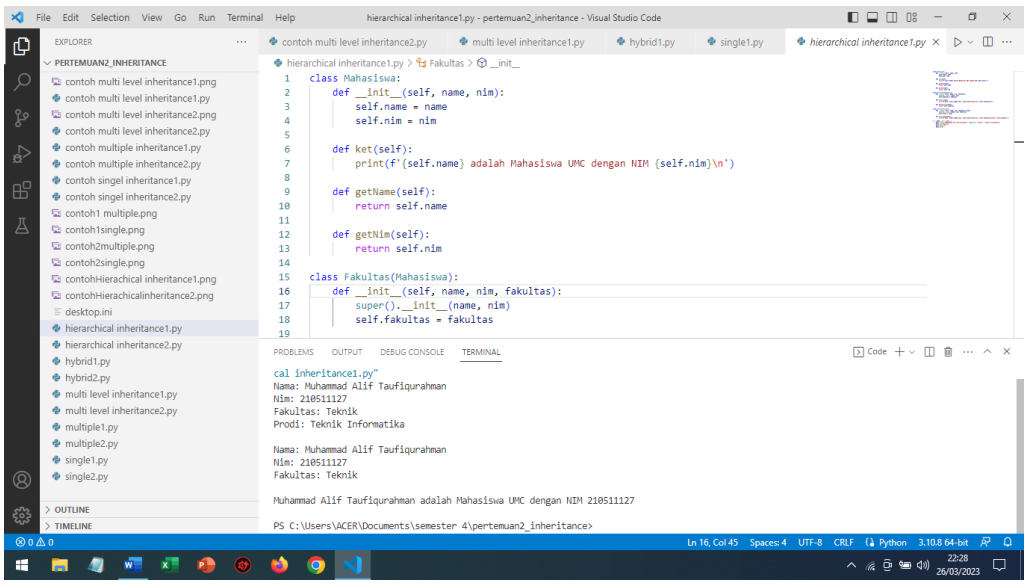
```
class Barang:
    def __init__(self, nama, kode, merek, ukuran):
        self.nama = nama
        self.kode_barang = kode
        self.merek = merek
        self.ukuran = ukuran
    def display_info(self):
        print(f"Nama barang: {self.nama}\nKode: {self.kode_barang} \nMerek: {self.merek} \nUkuran:
{self.ukuran}")
class Stok:
    def __init__(self, jumlah_barang):
        self.jumlah = jumlah_barang
    def display_info(self):
        print(f"Jumlah barang: {self.jumlah}")


class Sepatu(Barang, Stok):
    def __init__(self, nama, kode, merek, ukuran, jumlah_barang):
        Barang.__init__(self, nama, kode, merek, ukuran)
        Stok.__init__(self, jumlah_barang)

    def display_info(self):
         super().display_info()
         print(f"Nama barang: {self.nama}\nKode: {self.kode_barang} \nMerek: {self.merek}
\nUkuran: {self.ukuran} \nJumlah barang")

spt = Sepatu("Sepatu", "MBX", "Pro ATT", 42, "12 pcs")
spt.display_info()
```



3. hierarichal1.py

```
class Mahasiswa:
    def __init__(self, name, nim):
        self.name = name
        self.nim = nim

    def ket(self):
        print(f'{self.name} adalah Mahasiswa UMC dengan NIM {self.nim}\n')

    def getName(self):
        return self.name

    def getNim(self):
        return self.nim

class Fakultas(Mahasiswa):
    def __init__(self, name, nim, fakultas):
        super().__init__(name, nim)
        self.fakultas = fakultas

    def detail(self):
        print(f'Nama: {self.name}\nNim: {self.nim}\nFakultas: {self.fakultas}\n')

    def getFakultas(self):
        return self.fakultas

class Prodi(Fakultas):
    def __init__(self, name, nim, fakultas, prodi):
        super().__init__(name, nim, fakultas)
```

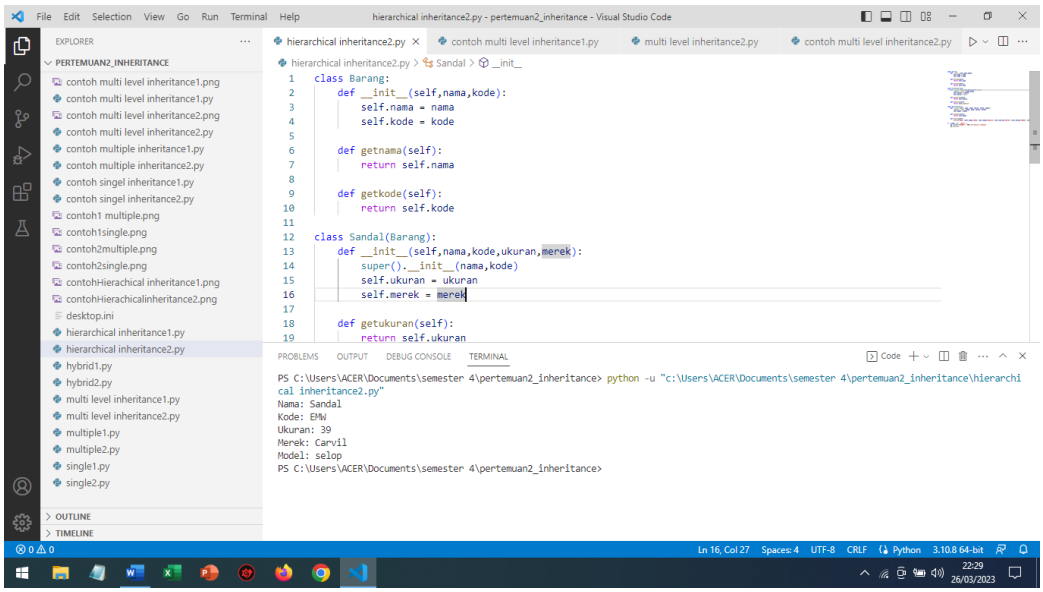
```
        self.prodi = prodi

    def keterangan(self):
        print(f'Nama: {self.name}\nNim: {self.nim}\nFakultas: {self.fakultas}\nProdi: {self.prodi}\n')

if __name__ == '__main__':
    mhs1 = Prodi("Muhammad Alif Taufiqurahman", 210511127, "Teknik", "Teknik Informatika")
    mhs1.keterangan()
    mhs1.detail()
    mhs1.ket()
```



Hierarichal2.py

```
class Barang:
    def __init__(self,nama,kode):
        self.nama = nama
        self.kode = kode

    def getnama(self):
        return self.nama

    def getkode(self):
        return self.kode

class Sandal(Barang):
```

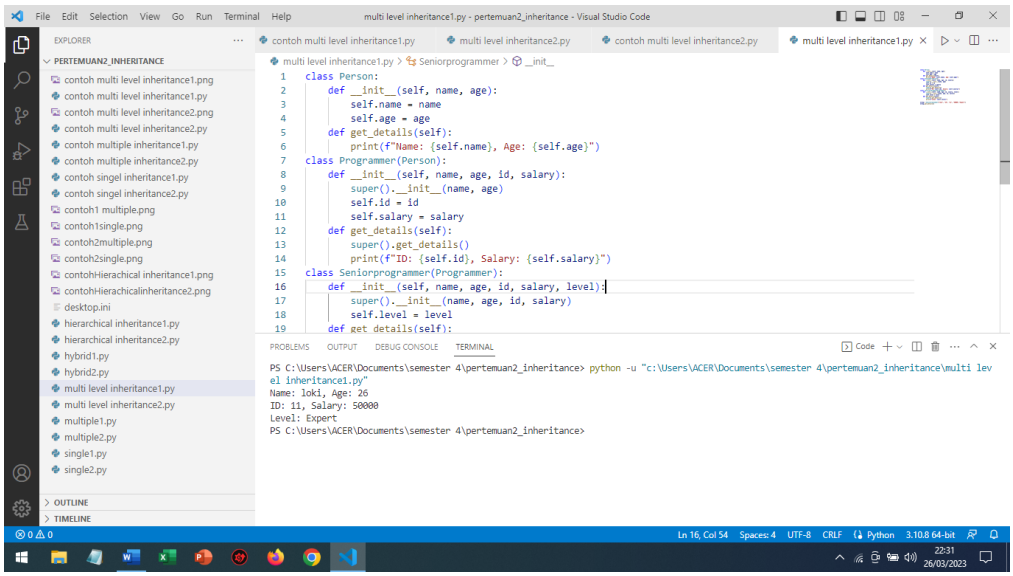
```
    def __init__(self,nama,kode,ukuran,merek):
        super().__init__(nama,kode)
        self.ukuran = ukuran
        self.merek = merek

    def getukuran(self):
        return self.ukuran

    def getmerek(self):
        return self.getmerek

class Model(Sandal):
    def __init__(self, nama, kode, ukuran, merek, model):
        super().__init__(nama, kode, ukuran, merek)
        self.model = model

    def getmodel(self):
        return self.model

    def detail(self):
        print(f'Nama: {self.nama}\nKode: {self.kode}\nUkuran: {self.ukuran}\nMerek:
{self.merek}\nModel: {self.model}')

if __name__ == '__main__':
    po = Model("Sandal", "EMW",39,"Carvil","selop")
    po.detail()
```



4. multi level1.py

```
class Person:
```

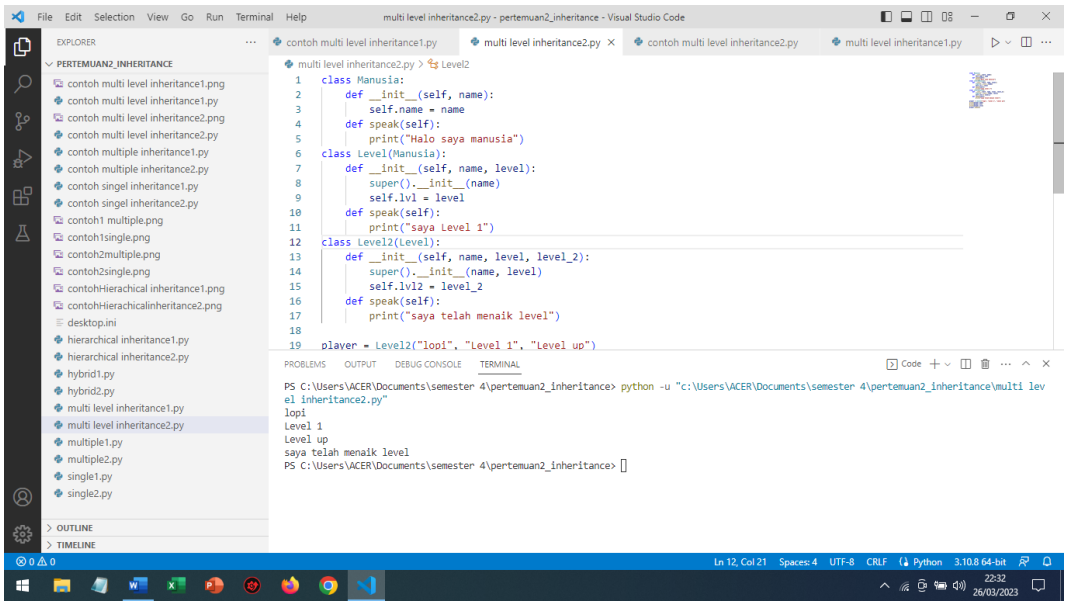
```
    def __init__(self, name, age):
        self.name = name
        self.age = age
    def get_details(self):
        print(f"Name: {self.name}, Age: {self.age}")
class Programmer(Person):
    def __init__(self, name, age, id, salary):
        super().__init__(name, age)
        self.id = id
        self.salary = salary
    def get_details(self):
        super().get_details()
        print(f"ID: {self.id}, Salary: {self.salary}")
class Seniorprogrammer(Programmer):
    def __init__(self, name, age, id, salary, level):
        super().__init__(name, age, id, salary)
        self.level = level
    def get_details(self):
        super().get_details()
        print(f"Level: {self.level}")

orang = Seniorprogrammer("loki", "26", "11", "50000","Expert")
orang.get_details()
```



Multi level2.py

```
class Manusia:
    def __init__(self, name):
        self.name = name
```

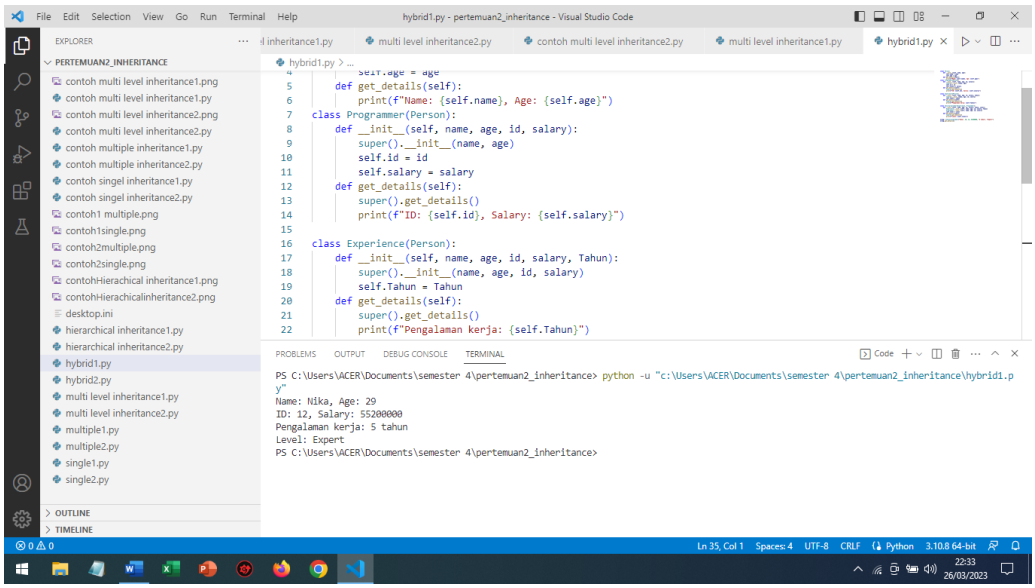
```
    def speak(self):
        print("Halo saya manusia")
class Level(Manusia):
    def __init__(self, name, level):
        super().__init__(name)
        self.lvl = level
    def speak(self):
        print("saya Level 1")
class Level2(Level):
    def __init__(self, name, level, level_2):
        super().__init__(name, level)
        self.lvl2 = level_2
    def speak(self):
        print("saya telah menaik level")

player = Level2("lopi", "Level 1", "Level up")
print(player.name)
print(player.lvl)
print(player.lvl2)
player.speak()
```



5. hybrid1.py

```
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age
    def get_details(self):
        print(f"Name: {self.name}, Age: {self.age}")
```

```python
class Programmer(Person):
    def __init__(self, name, age, id, salary):
        super().__init__(name, age)
        self.id = id
        self.salary = salary
    def get_details(self):
        super().get_details()
        print(f"ID: {self.id}, Salary: {self.salary}")

class Experience(Person):
    def __init__(self, name, age, id, salary, Tahun):
        super().__init__(name, age, id, salary)
        self.Tahun = Tahun
    def get_details(self):
        super().get_details()
        print(f"Pengalaman kerja: {self.Tahun}")

class Seniorprogrammer(Experience, Programmer):
    def __init__(self, name, age, id, salary, Tahun, Level):
        Experience.__init__(self, name, age, id, salary, Tahun)
        Programmer.__init__(self, name, age, id, salary)
        self.level = Level
    def get_details(self):
        super().get_details()
        print(f"Level: {self.level}")

orang = Seniorprogrammer("Nika", 29, 12, 55200000, "5 tahun", "Expert")
orang.get_details()
```



Hybrid2.py

```python
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age
    def get_details(self):
        print(f"Name: {self.name}, Age: {self.age}")
class Player(Person):
    def __init__(self, name, age, No, salary):
        super().__init__(name, age)
        self.no = No
        self.salary = salary
    def get_details(self):
        super().get_details()
        print(f"No punggung: {self.no}, Salary: {self.salary}")

class Experience(Person):
    def __init__(self, name, age, no, salary, Trophy):
        super().__init__(name, age, no, salary)
        self.Tropi = Trophy
    def get_details(self):
        super().get_details()
        print(f"Trophy yang diraih: {self.Tropi}")

class GoatPlayer(Experience, Player):
    def __init__(self, name, age, no, salary, Trophy, Level):
        Experience.__init__(self, name, age, no, salary, Trophy)
        Player.__init__(self, name, age, no, salary)
        self.level = Level
    def get_details(self):
        super().get_details()
        print(f"Level: {self.level}")

orang = GoatPlayer("Cristiano Ronaldo", 38, 7, 55200000, "34 Trophy", "GOAT")
orang.get_details()
```