



PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

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1. Single inheritance

a. Contoh 1:

```
class Mobil:
    def __init__(self, merk, warna):
        self.merk = merk
        self.warna = warna
    def mobil(self):
        print(self.merk, "mobil")

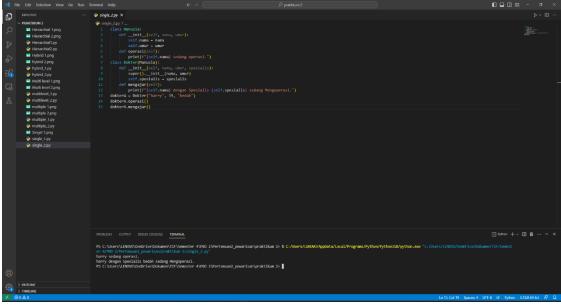
class Kucing(Mobil):
    def __init__(self, merk, warna, jenis_mobil):
        super().__init__(merk, warna)
        self.jenis_mobil = jenis_mobil
    def torsi(self):
        print("1000cc!")

kucingA = Kucing("honda", "kuning", "sedan")
kucingA.mobil()
kucingA.torsi()
```

Output:

```
class Manusia:
    def __init__(self, nama, umur):
        self.nama = nama
        self.umur = umur
    def operasi(self):
        print(f"{self.nama} sedang operasi.")
```

```
class Dokter(Manusia):
    def __init__(self, nama, umur, spesialis):
        super().__init__(nama, umur)
        self.spesialis = spesialis
    def mengajar(self):
        print(f"{self.nama} dengan Spesialis {self.spesialis}
    sedang Mengoperasi.")
    dokterA = Dokter("harry", 39, "bedah")
    dokterA.operasi()
    dokterA.mengajar()
```



- 2. multiple inheritance
 - a. Contoh 1:

```
class Pasien:
    def __init__(self, nama, nik):
        self.nama = nama
        self.nik = nik
    def dicek(self):
        print(self.nama, "sedang dicek")

class Pekerja:
    def __init__(self, nama, pekerjaan):
        self.nama = nama
        self.pekerjaan = pekerjaan
    def pekerja(self):
        print(self.nama, "seorang pekerja")

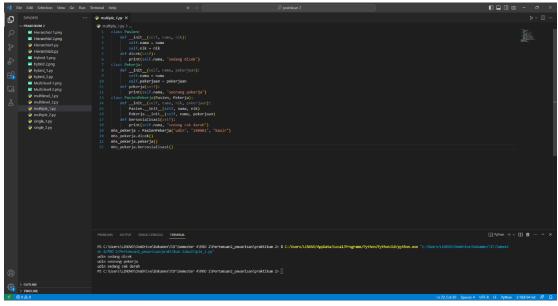
class PasienPekerja(Pasien, Pekerja):
    def __init__(self, nama, nik, pekerjaan):
```

```
Pasien.__init__(self, nama, nik)
Pekerja.__init__(self, nama, pekerjaan)

def bersosialisasi(self):
    print(self.nama, "sedang cek darah")

mhs_pekerja = PasienPekerja("udin", "190001", "kasir")

mhs_pekerja.dicek()
mhs_pekerja.pekerja()
mhs_pekerja.bersosialisasi()
```



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

class Penari:
    def __init__(self, tempat):
        self.tempat = tempat

class Murid (Manusia, Penari):
    def __init__(self, nama, umur, tempat):
        Manusia.__init__(self, nama, umur)
        Penari.__init__(self, tempat)

ujang = Murid( 'ujang', 20, 'teater')
    print (ujang.nama)
    print (ujang.umur)
    print (ujang.tempat)
```

- 3. hierarchial Inheritance
 - a. Contoh 1:

```
class Hewan:
   def __init__(self, nama):
        self.nama = nama
   def suara(self):
        print(f"{self.nama} suara.")
class Serigala(Hewan):
   def __init__(self, nama):
        super().__init__(nama)
   def suara(self):
        print(f"{self.nama} Auuuuu!!")
class Kucing(Hewan):
   def __init__(self, nama):
        super().__init__(nama)
    def suara(self):
        print(f"{self.nama} meong!!")
HSerigala = Serigala("bold")
HKucing = Kucing("mely")
HSerigala.suara()
HKucing.suara()
```

```
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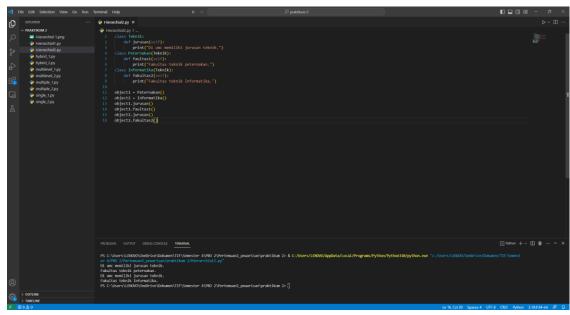
b. Contoh 2:

```
class Teknik:
    def jurusan(self):
        print("Di umc memiliki jurusan teknik.")

class Peternakan(Teknik):
    def faultas1(self):
        print("Fakultas teknik peternakan.")

class Informatika(Teknik):
    def fakultas2(self):
        print("Fakultas teknik Informatika.")

object1 = Peternakan()
    object2 = Informatika()
    object1.jurusan()
    object1.faultas1()
    object2.fakultas2()
```



4. Multi_level inheritance

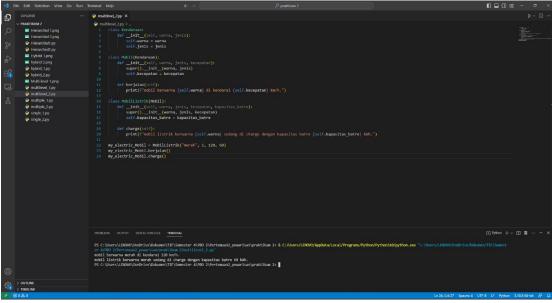
a. Contoh 1:

```
class Hewan:
   def __init__(self, spesies):
        self.spesies = spesies
    def makan(self):
        print("hewan sedang makan!!!")
class peliharaan(Hewan):
    def __init__(self, nama, spesies):
        super().__init__(spesies)
        self.nama = nama
    def bermain(self):
        print("hewan sdang bermain")
class cat(peliharaan):
   def __init__(self, nama, keturunan):
        super().__init__(nama, "angora")
        self.keturunan = keturunan
    def suara(self):
        print("meong meong")
Kucing = cat("moly", "angora")
print("spesies:", Kucing.spesies)
print("nama:", Kucing.nama)
Kucing.makan()
```

```
Kucing.bermain()
Kucing.suara()
```

```
class Kendaraan:
    def __init__(self, warna, jenis):
        self.warna = warna
        self.jenis = jenis
class Mobil(Kendaraan):
    def __init__(self, warna, jenis, kecepatan):
        super().__init__(warna, jenis)
        self.kecepatan = kecepatan
    def berjalan(self):
        print(f"mobil berwarna {self.warna} di kendarai
{self.kecepatan} km/h.")
class MobilListrik(Mobil):
    def __init__(self, warna, jenis, kecepatan,
kapasitas_batre):
        super().__init__(warna, jenis, kecepatan)
        self.kapasitas_batre = kapasitas_batre
    def charge(self):
        print(f"mobil listrik berwarna {self.warna} sedang di
charge dengan kapasitas batre {self.kapasitas_batre} kWh.")
```

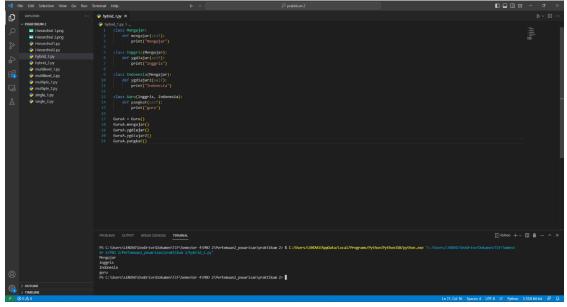
```
my_electric_Mobil = MobilListrik("merah", 5, 120, 60)
my_electric_Mobil.berjalan()
my_electric_Mobil.charge()
```



5. Hybrid inheritance

a. Contoh 1:

```
class Mengajar:
    def mengajar(self):
        print("Mengajar")
class Inggris(Mengajar):
    def ygdiajar(self):
        print("Inggris")
class Indonesia(Mengajar):
    def ygdiajar2(self):
        print("Indonesia")
class Guru(Inggris, Indonesia):
    def pangkat(self):
        print("guru")
GuruA = Guru()
GuruA.mengajar()
GuruA.ygdiajar()
GuruA.ygdiajar2()
GuruA.pangkat()
```



```
class Hewan:
    def __init__(self, nama):
        self.nama = nama
    def suara(self):
        pass
class Serigala(Hewan):
    def suara(self):
        return "Auuuuuu!!"
class Kucing(Hewan):
    def suara(self):
        return "Meong!!"
class Burung(Hewan):
    def suara(self):
        return "cittt ciit!!"
def main():
    serigala = Serigala("Buddy")
    kucing = Kucing("Mittens")
    burung = Burung("Polly")
    print(serigala.nama + ": " + serigala.suara())
   print(kucing.nama + ": " + kucing.suara())
    print(burung.nama + ": " + burung.suara())
```

```
if __name__ == "__main__":
    main()
```

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