

LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



Prepared By:

ALI MABRUR MUBAROK

210511112 / TIF21C

NAMA : ALI MABRUR MUBAROK

NIM : 210511112

Kelas : TIF21C / R3

Tugas : 2 / Praktikum

1. Single1.py, Single2.py

Single1.py =

#Nama : ALI MABRUR MUBAROK

#Nim : 210511112

#Kelas : TIF21C

class Karyawan:

def __init__(self, nama, jenis):

self.nama = nama

self.jenis = jenis

def misi(self):

print(f"{self.nama} sedang menjalankan misi.")

class Kerjaan(Karyawan):

def __init__(self, nama, jenis, status):

super().__init__(nama, jenis)

self.status = status

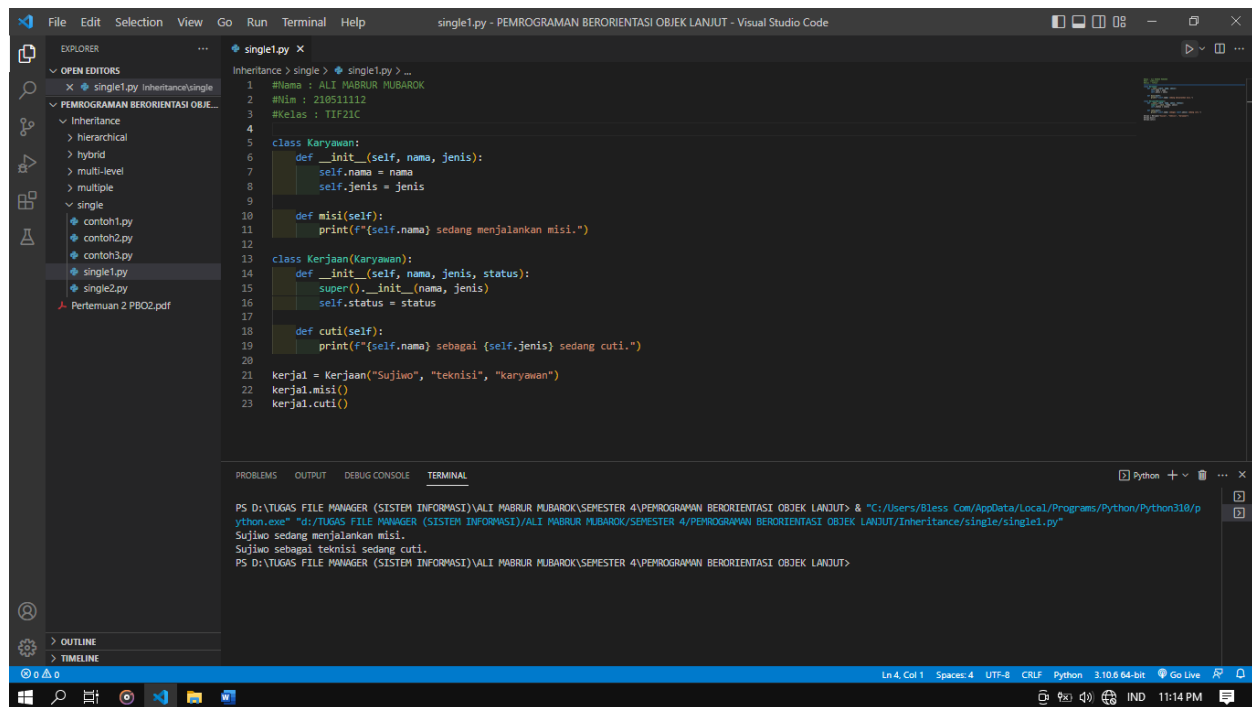
def cuti(self):

print(f"{self.nama} sebagai {self.jenis} sedang cuti.")

kerja1 = Kerjaan("Sujiwo", "teknisi", "karyawan")

kerja1.misi()

kerja1.cuti()



Single2.py =

#Nama : ALI MABRUR MUBAROK

#Nim : 210511112

#Kelas : TIF21C

class Rumahsakit:

def __init__(self, nama, alamat):

self.nama = nama

self.alamat = alamat

def dirawat(self):

print(self.nama, "sedang dirawat")

class Pasien(Rumahsakit):

def __init__(self, nama, alamat, penyakit):

super().__init__(nama, alamat)

self.penakit = penyakit

```
def pulang(self):

    print(self.nama, "telah dipulangkan")
```

```
pasien1 = Pasien("naruto", "konoha", "asamlambung")
```

```
pasien1.dirawat()
```

```
pasien1.pulang()
```

```
single2.py - PEMROGRAMAN BERORIENTASI OBJEK LANJUT - Visual Studio Code

1 #Nama : ALI MABRUR MUBAROK
2 #Nim : 210511112
3 #Kelas : TIF21C
4
5 class Rumahsakit:
6     def __init__(self, nama, alamat):
7         self.nama = nama
8         self.alamat = alamat
9
10    def dirawat(self):
11        print(self.nama, "sedang dirawat")
12
13 class Pasien(Rumahsakit):
14     def __init__(self, nama, alamat, penyakit):
15         super().__init__(nama, alamat)
16         self.penakit = penyakit
17
18     def pulang(self):
19         print(self.nama, "telah dipulangkan")
20
21 pasien1 = Pasien("naruto", "konoha", "asamlambung")
22 pasien1.dirawat()
23 pasien1.pulang()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT> & "C:/Users/Bless Com/AppData/Local/Programs/Python/Python310/p
ython.exe" "d:/TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT/Inheritance/single/single2.py"
naruto sedang dirawat
naruto telah dipulangkan
PS D:\TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT>
```

Ln 23, Col 17 Spaces: 4 UTF-8 CRLF Python 3.10.5 64-bit Go Live

2. Multiple1.py, Multiple2.py

Multiple1.py =

```
#Nama : ALI MABRUR MUBAROK
```

```
#Nim : 210511112
```

```
#Kelas : TIF21C
```

class tumbuhan:

```
def __init__(self, nama, tipe):

    self.nama = nama
```

```
self.tipe = tipe
```

```
def display_info(self):  
    print(f>Nama: {self.nama}")  
    print(f">Type: {self.tipe}")
```

```
class berbuah:  
    def __init__(self, daun, batang):  
        self.daun = daun  
        self.batang = batang
```

```
def display_info(self):  
    print(f">Daun: {self.daun}")  
    print(f">Batung: {self.batang}")
```

```
class berbiji:  
    def __init__(self, akar, bunga):  
        self.akar = akar  
        self.bunga = bunga
```

```
def display_info(self):  
    print(f">Akar: {self.Akar}")  
    print(f">Bunga: {self.Bunga}")
```

```
class Mangga(tumbuhan, berbuah, berbiji):  
    def __init__(self, nama, tipe, daun, batang, akar, bunga):  
        tumbuhan.__init__(self, nama, tipe)  
        berbuah.__init__(self, daun, batang)  
        berbiji.__init__(self, akar, bunga)
```

```

def display_info(self):

    super().display_info()

    print(f"Daun: {self.daun}")

    print(f"Batang: {self.batang}")

    print(f"Akar: {self.akar}")

    print(f"Bunga: {self.bunga}")

```

```

tumbuhan1 = Mangga("Mangga", "buah", "hijau", "kasar", "serabut", "kuning")

tumbuhan1.display_info()

```

The screenshot shows a Visual Studio Code editor with a file named `multiple1.py` open. The file contains the following Python code:

```

1 #Nama : ALI MABRUR MUBAROK
2 #Nim : 210511112
3 #Kelas : TIF21C
4
5 class tumbuhan:
6     def __init__(self, nama, tipe):
7         self.nama = nama
8         self.tipe = tipe
9
10    def display_info(self):
11        print(f"Nama: {self.nama}")
12        print(f"Type: {self.tipe}")
13
14 class jeruk:
15     def __init__(self, daun, batang):
16         self.daun = daun
17         self.batang = batang
18
19     def display_info(self):
20        print(f"Daun: {self.daun}")
21        print(f"Batang: {self.batang}")
22
23 class pisang:
24     def __init__(self, akar, bunga):
25         self.akar = akar
26         self.bunga = bunga

```

The terminal output shows the execution of the `Mangga` object methods:

```

PS D:\TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT> & "C:/Users/Bless Com/AppData/Local/Programs/Python/Python310/p
ython.exe" "d:\TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT\inheritance/multiple/multiple1.py"
Nama: Mangga
Type: buah
Daun: hijau
Batang: kasar
Akar: serabut
Bunga: kuning
PS D:\TUGAS FILE MANAGER (SISTEM INFORMASI)\ALI MABRUR MUBAROK\SEMESTER 4\PEMROGRAMAN BERORIENTASI OBJEK LANJUT>

```

Multiple2.py =

```

#Nama : ALI MABRUR MUBAROK

#Nim : 210511112

#Kelas : TIF21C

```

class pakaian:

```

def __init__(self, nama, merk):

```

```
self.nama = nama
```

```
self.merk = merk
```

```
def display_info(self):
```

```
    print(f>Nama: {self.nama}")
```

```
    print(f>Merk dari: {self.merk}")
```

```
class panjang:
```

```
    def __init__(self, ukuran, bahan):
```

```
        self.ukuran = ukuran
```

```
        self.bahan = bahan
```

```
    def display_info(self):
```

```
        print(f"Ukuran: {self.ukuran}")
```

```
        print(f"Bahan: {self.bahan}")
```

```
class pendek:
```

```
    def __init__(self, genre, harga):
```

```
        self.genre = genre
```

```
        self.harga = harga
```

```
    def display_info(self):
```

```
        print(f"Genre: {self.genre}")
```

```
        print(f"Harga: {self.harga}")
```

```
class Adidas(pakaian, panjang, pendek):
```

```
    def __init__(self, nama, merk, ukuran, bahan, genre, harga):
```

```
        pakaian.__init__(self, nama, merk)
```

```
        panjang.__init__(self, ukuran, bahan)
```

```
pendek.__init__(self, genre, harga)
```

```
def display_info(self):
```

```
    super().display_info()
```

```
    print(f"Ukurannya: {self.ukuran}")
```

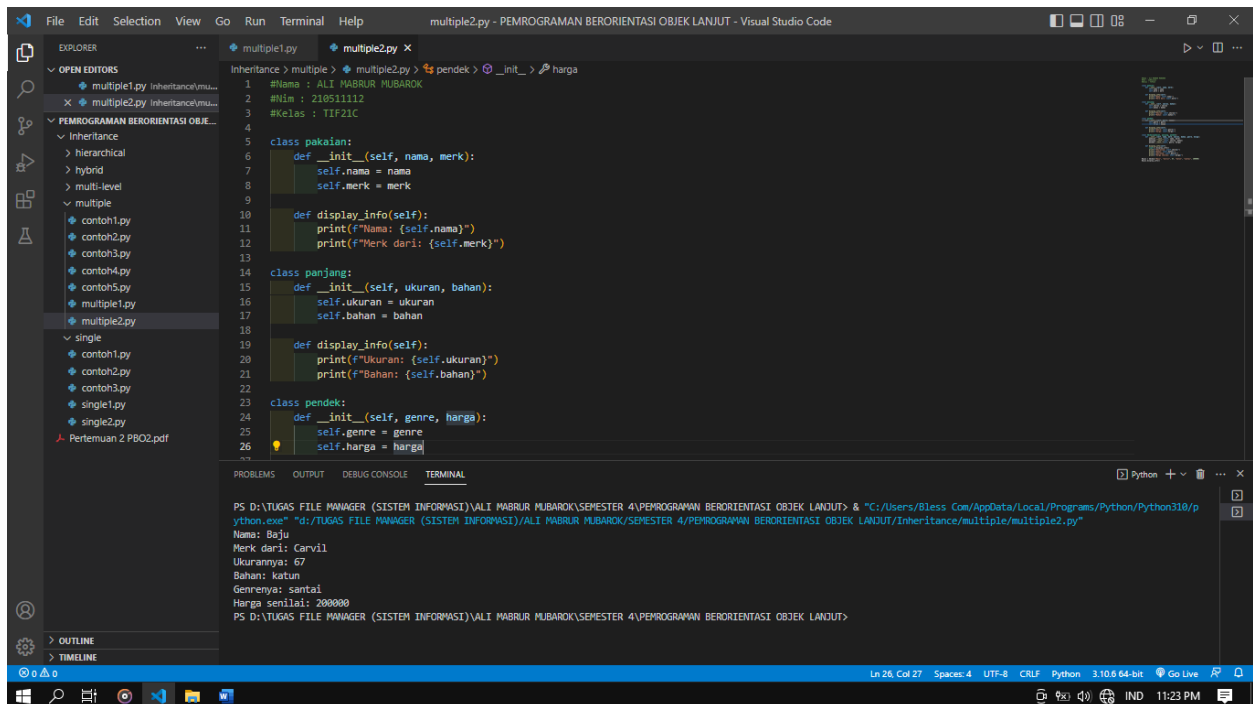
```
    print(f"Bahan: {self.bahan}")
```

```
    print(f"Genrenya: {self.genre}")
```

```
    print(f"Harga senilai: {self.harga}")
```

```
Baju1 = Adidas("Baju", "Carvil", 67, "katun", "santai", 200000)
```

```
Baju1.display_info()
```



```
multiple2.py - PEMROGRAMAN BERORIENTASI OBJEK LANJUT - Visual Studio Code

Inheritance > multiple > multiple2.py > pendek > __init__ > harga
1 #nama : ALI MABRUR MUBAROK
2 #nim : 210511112
3 #kelas : TIF21C
4
5 class pakaian:
6     def __init__(self, nama, merk):
7         self.nama = nama
8         self.merk = merk
9
10    def display_info(self):
11        print(f>Nama: {self.nama}")
12        print(f"Merk dari: {self.merk}")
13
14    class panjang:
15        def __init__(self, ukuran, bahan):
16            self.ukuran = ukuran
17            self.bahan = bahan
18
19        def display_info(self):
20            print(f"Ukurannya: {self.ukuran}")
21            print(f"Bahan: {self.bahan}")
22
23    class pendek:
24        def __init__(self, genre, harga):
25            self.genre = genre
26            self.harga = harga
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```



```
class Tumbuhan:
```

```
    def __init__(self, nama, warna):
```

```
        self.nama = nama
```

```
        self.warna = warna
```

```
    def get_nama(self):
```

```
        return self.nama
```

```
    def get_warna(self):
```

```
        return self.warna
```

```
class berbiji(Tumbuhan):
```

```
    def __init__(self, nama, warna, biji):
```

```
        super().__init__(nama, warna)
```

```
        self.biji = biji
```

```
    def get_biji(self):
```

```
        return self.biji
```

```
class berbuah(Tumbuhan):
```

```
    def __init__(self, nama, warna, buah):
```

```
        super().__init__(nama, warna)
```

```
        self.buah = buah
```

```
    def get_buah(self):
```

```
        return self.buah
```

```
# Hierarchical Inheritance
```

```
class Semangka(berbuah):
```

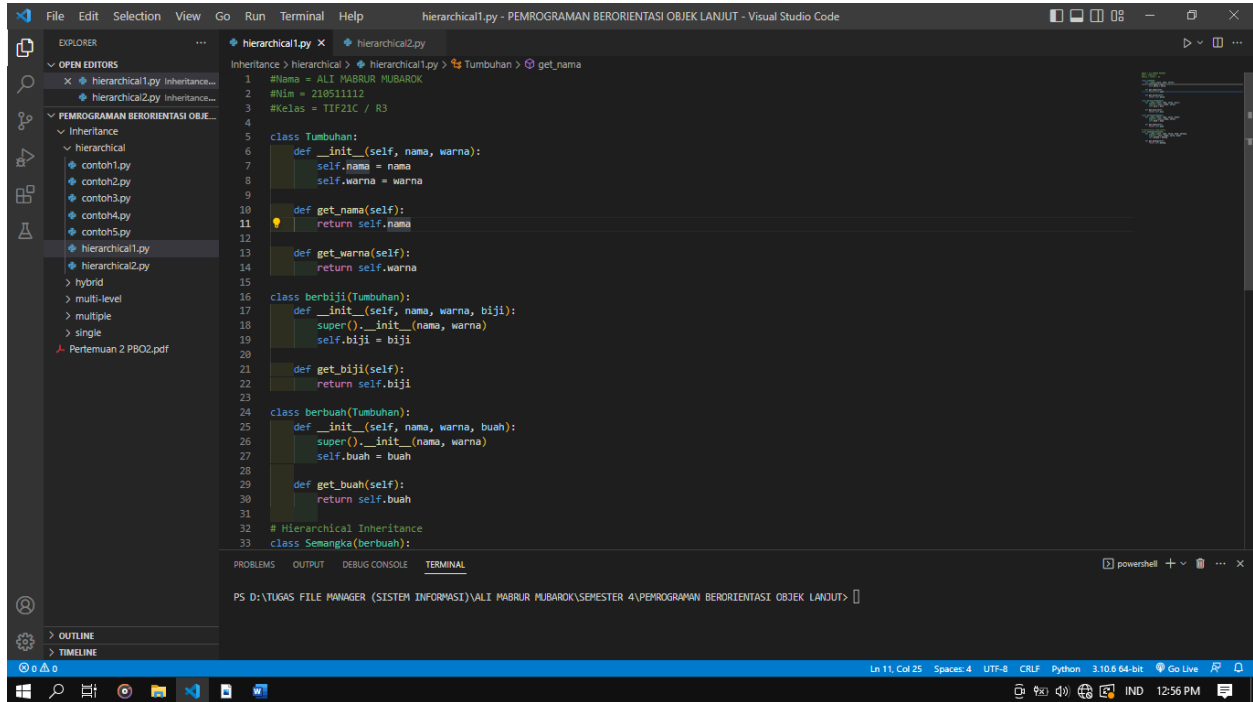
```
def __init__(self, nama, warna, buah, batang):

    super().__init__(nama, warna, buah)

    self.batang = batang
```

```
def get_batang(self):

    return self.batang
```



Hierarchical2.py =

```
#Nama = ALI MABRUR MUBAROK
```

```
#Nim = 210511112
```

```
#Kelas = TIF21C / R3
```

```
class AkunShopee:
```

```
def __init__(self, nomor_akun, alamat):

    self.nomor_akun = nomor_akun

    self.alamat = alamat
```

```
def get_nomor_akun(self):
```

```
    return self.nomor_akun
```

```
def get_alamat(self):
```

```
    return self.alamat
```

```
class AkunTopup(AkunShopee):
```

```
    def __init__(self, nomor_akun, alamat, topup):
```

```
        super().__init__(nomor_akun, alamat)
```

```
        self.topup = topup
```

```
def get_topup(self):
```

```
    return self.topup
```

```
class Akunchekout(AkunShopee):
```

```
    def __init__(self, nomor_akun, alamat, chekout):
```

```
        super().__init__(nomor_akun, alamat)
```

```
        self.chekout = chekout
```

```
def get_checkout(self):
```

```
    return self.chekout
```

```
# Hierarchical Inheritance
```

```
class Pembeli(Akunchekout):
```

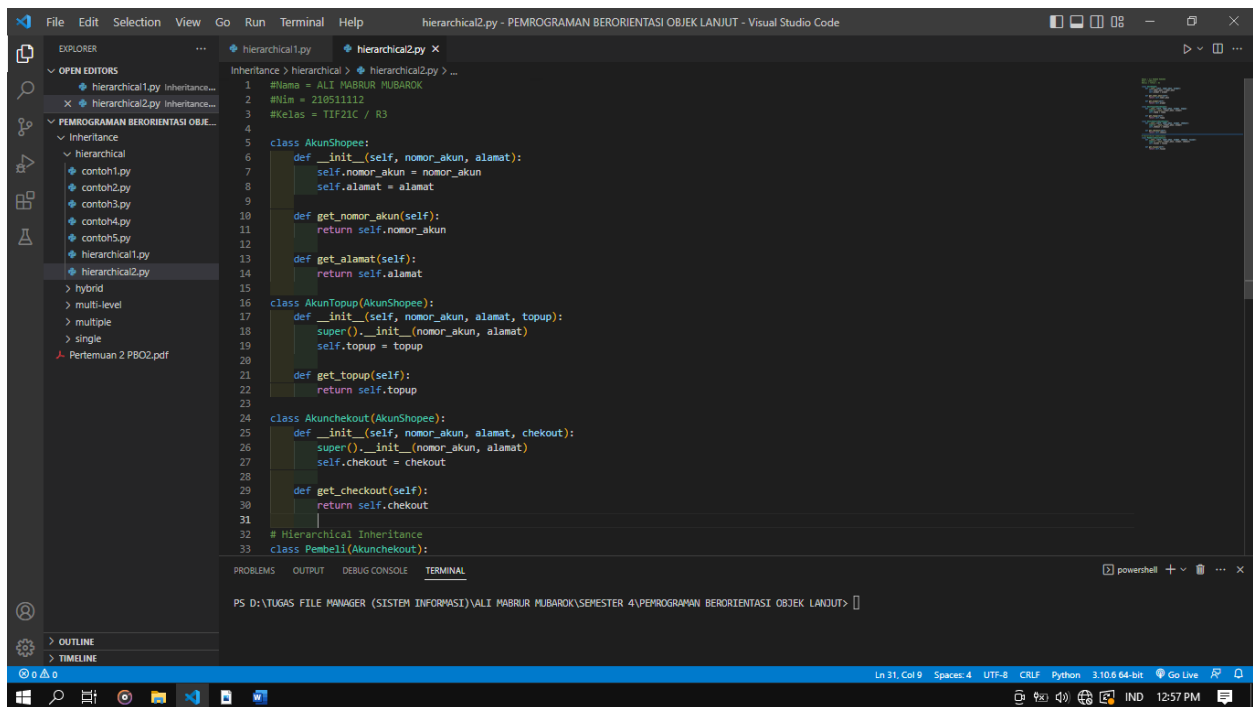
```
    def __init__(self, nomor_akun, alamat, chekout, tujuan):
```

```
        super().__init__(nomor_akun, alamat, chekout)
```

```
        self.tujuan = tujuan
```

```
def get_tujuan(self):
```

```
    return self.tujuan
```



4. Multi-level1.py , Multi-level2.py

Multi-level1.py =

#Nama = ALI MABRUR MUBAROK

#Nim = 210511112

#Kelas = TIF21C / R3

class Tumbuhan:

def __init__(self, name):

self.name = name

def fotosintesis(self):

print("Tumbuhan ini sedang Fotosintesis")

class Berbatang(Tumbuhan):

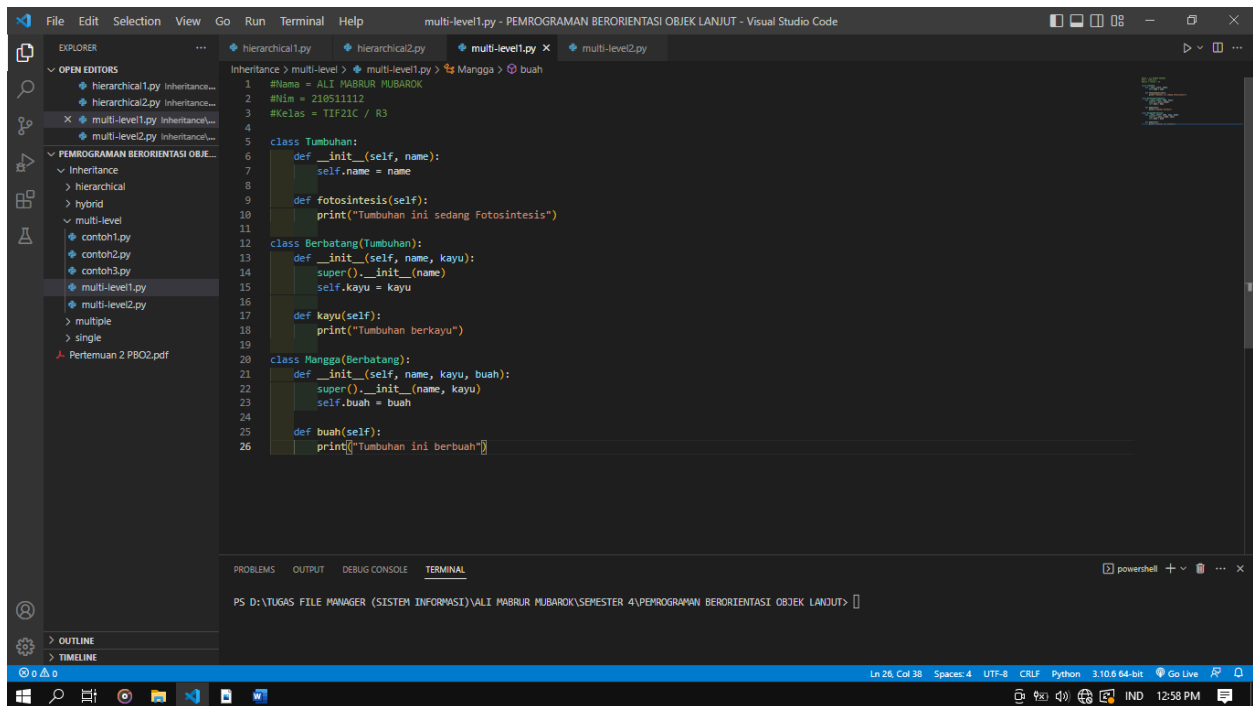
def __init__(self, name, kayu):

super().__init__(name)

self.kayu = kayu

```
def kayu(self):  
    print("Tumbuhan berkayu")
```

```
class Mangga(Berbatang):  
  
    def __init__(self, name, kayu, buah):  
        super().__init__(name, kayu)  
        self.buah = buah  
  
    def buah(self):  
        print("Tumbuhan ini berbuah")
```



Multi-level2.py =

#Nama = ALI MABRUR MUBAROK

#Nim = 210511112

#Kelas = TIF21C / R3

class Negara:

```
def __init__(self, name, flag):
```

```
    self.name = name
```

```
    self.flag = flag
```

```
def get_details(self):
```

```
    print(f"Name: {self.name}, Flag: {self.flag}")
```

```
class Pemerintah(Negara):
```

```
    def __init__(self, name, flag, lembaga, department):
```

```
        super().__init__(name, flag)
```

```
        self.lembaga = lembaga
```

```
        self.department = department
```

```
    def get_details(self):
```

```
        super().get_details()
```

```
        print(f"Lembaga: {self.lembaga}, Department: {self.department}")
```

```
class PSSI(Pemerintah):
```

```
    def __init__(self, name, flag, lembaga, department, fifa_banned):
```

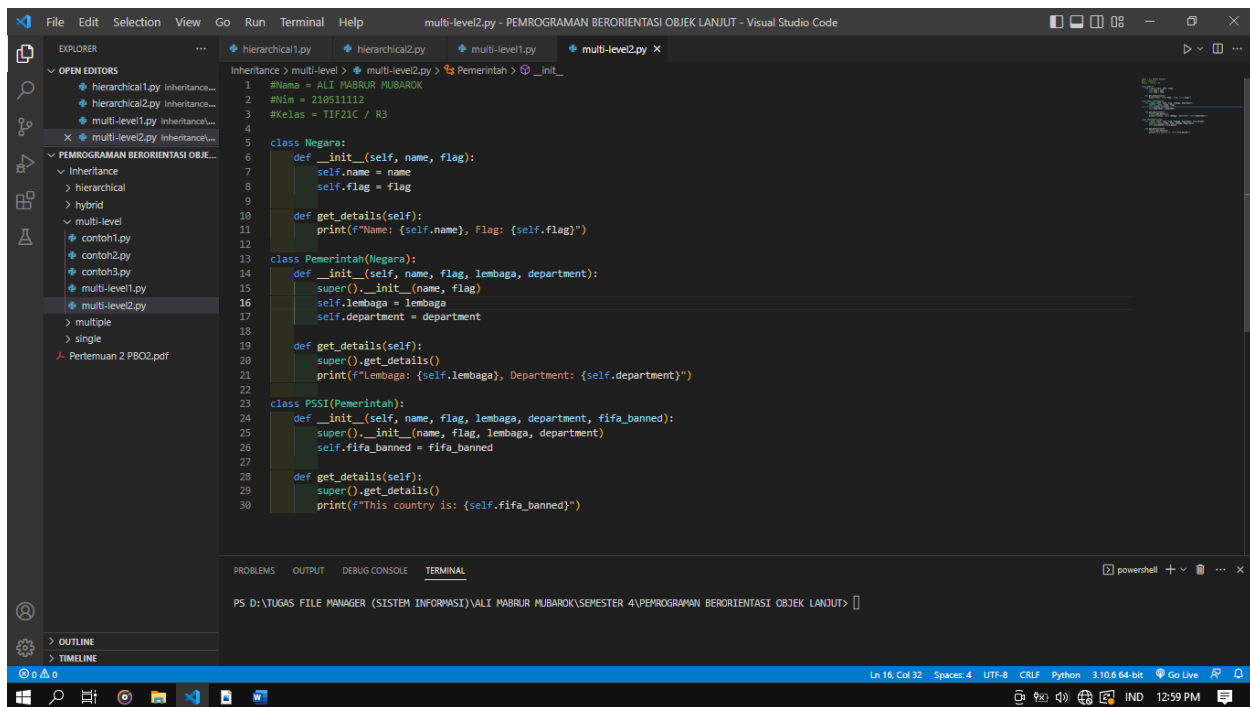
```
        super().__init__(name, flag, lembaga, department)
```

```
        self.fifa_banned = fifa_banned
```

```
    def get_details(self):
```

```
        super().get_details()
```

```
        print(f"This country is: {self.fifa_banned}")
```



5. Hybrid1.py , Hybrid2.py

Hybrid1.py =

#Nama = ALI MABRUR MUBAROK

#Nim = 210511112

#Kelas = TIF21C / R3

class Seseorang:

def __init__(self, name, umur, gender):

self.name = name

self.umur = umur

self.gender = gender

def get_info(self):

print("Name:", self.name)

print("Umur:", self.umur)

print("Jenis Kelamin:", self.gender)

Single Inheritance

```
class Pejabat(Seseorang):
```

```
    def __init__(self, name, umur, gender, NIP):
```

```
        super().__init__(name, umur, gender)
```

```
        self.NIP = NIP
```

```
    def get_info(self):
```

```
        super().get_info()
```

```
        print("NIP:", self.NIP)
```

Single Inheritance

```
class Aparat(Seseorang):
```

```
    def __init__(self, name, umur, gender, kode_aparat, pangkat):
```

```
        super().__init__(name, umur, gender)
```

```
        self.kode_aparat = kode_aparat
```

```
        self.pangkat = pangkat
```

```
    def get_info(self):
```

```
        super().get_info()
```

```
        print("Kode Aparat:", self.kode_aparat)
```

```
        print("Pangkat:", self.pangkat)
```

Multiple Inheritance

```
class Tni(Aparat, Pejabat):
```

```
    def __init__(self, name, umur, gender, kode_aparat, pangkat, NIP, perwira):
```

```
        Aparat.__init__(self, name, umur, gender, kode_aparat, pangkat)
```

```
        Pejabat.__init__(self, name, umur, gender, NIP)
```

```
        self.perwira = perwira
```



```

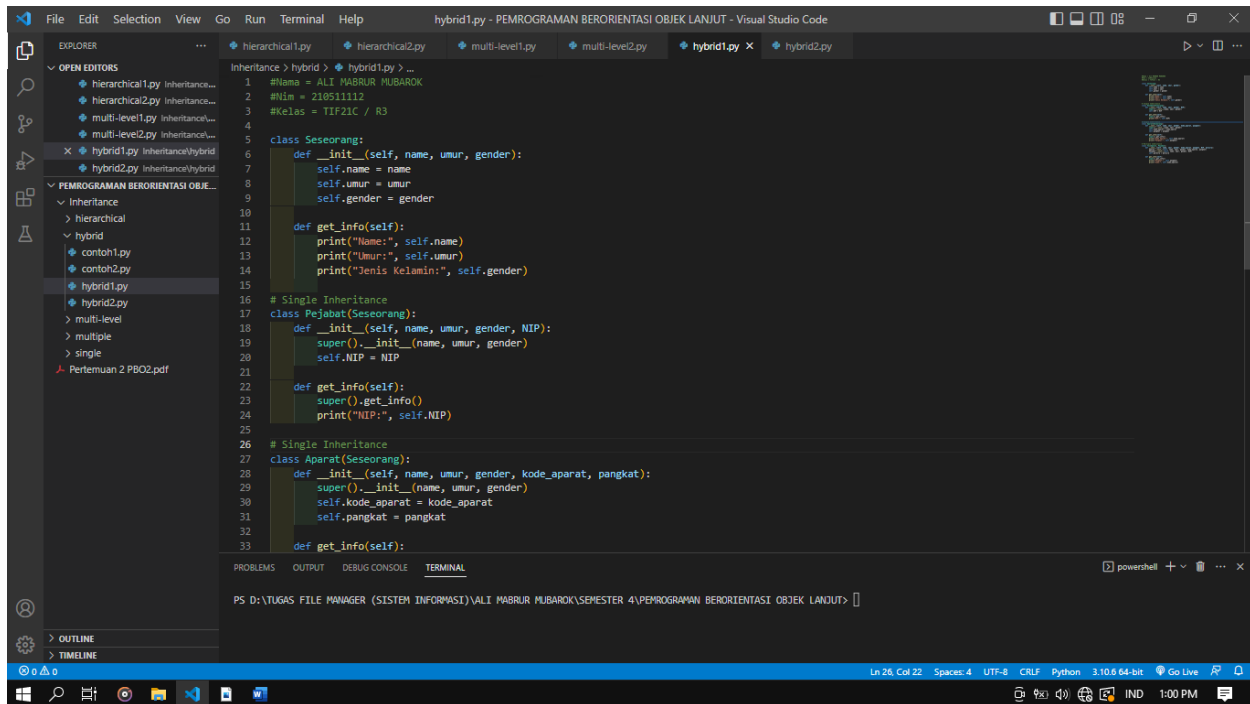
def get_info(self):

    super().get_info()

    print("Pangkat:", self.pangkat)

    print("kode:", self.kode_aparat)

```



Hybrid2.py =

```

#Nama = ALI MABRUR MUBAROK

#Nim = 210511112

#Kelas = TIF21C / R3

```

class Tumbuhan:

```

def __init__(self, name, age, color):

    self.name = name

    self.age = age

    self.color = color

```

```

def get_info(self):

    print("Name:", self.name)

```

```
print("Age:", self.age)
print("Color:", self.color)
```

Single Inheritance

```
class Berbatang(Tumbuhan):
    def __init__(self, name, age, color, berkayu):
        super().__init__(name, age, color)
        self.berkayu = berkayu

    def get_info(self):
        super().get_info()
        print("Berbatang:", self.berkayu)
```

Single Inheritance

```
class Berongga(Tumbuhan):
    def __init__(self, name, age, color, jenis, daun):
        super().__init__(name, age, color)
        self.jenis = jenis
        self.daun = daun

    def get_info(self):
        super().get_info()
        print("jenis :", self.jenis)
        print("Berdaun :", self.daun)
```

Multiple Inheritance

```
class Padi(Berongga, Berbatang):
    def __init__(self, name, age, color, jenis, daun, berkayu, panen):
        Berongga.__init__(self, name, age, color, jenis, daun)
```

```
Berbatang.__init__(self, name, age, color, berkayu)
```

```
self.panen = panen
```

```
def get_info(self):
```

```
    super().get_info()
```

```
    print("Berbatang :", self.berkayu)
```

```
    print("Dipanen Pada :", self.panen)
```

