Nama : Muhamad Nairul Ramandhika

Kelas : R1

NIM : 210511040

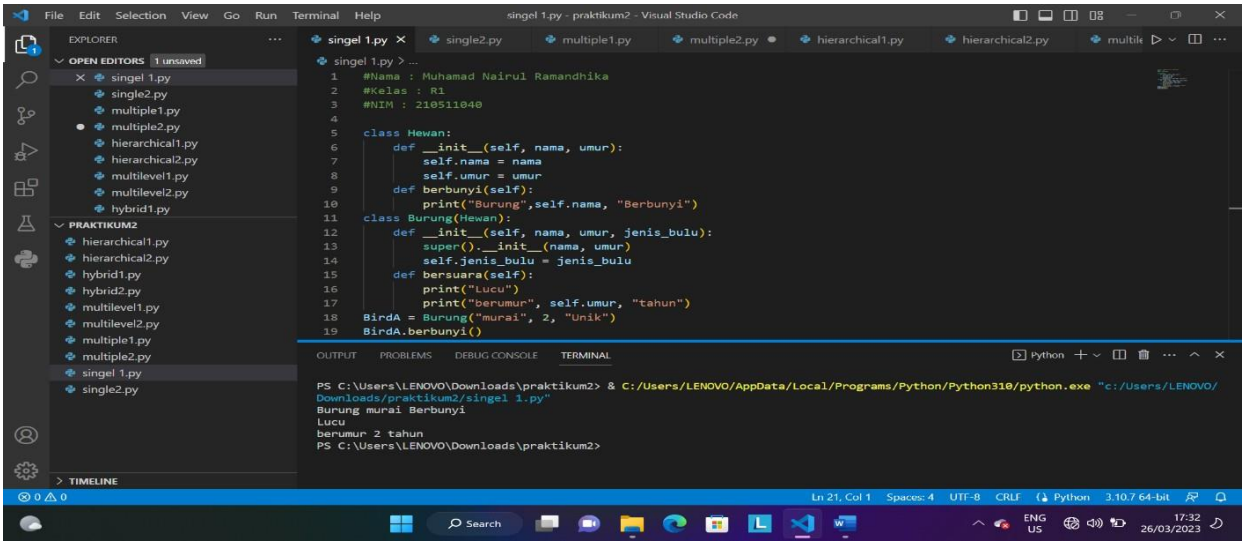
Tugas2 PBO2

Single1

Script :

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Hewan:
    def __init__(self, nama, umur):
        self.nama = nama
        self.umur = umur
    def berbunyi(self):
        print("Burung",self.nama, "Berbunyi")
class Burung(Hewan):
    def __init__(self, nama, umur, jenis_bulu):
        super().__init__(nama, umur)
        self.jenis_bulu = jenis_bulu
    def bersuara(self):
        print("Lucu")
        print("berumur", self.umur, "tahun")
BirdA = Burung("murai", 2, "Unik")
BirdA.berbunyi()
BirdA.bersuara()
```

Hasil running program :

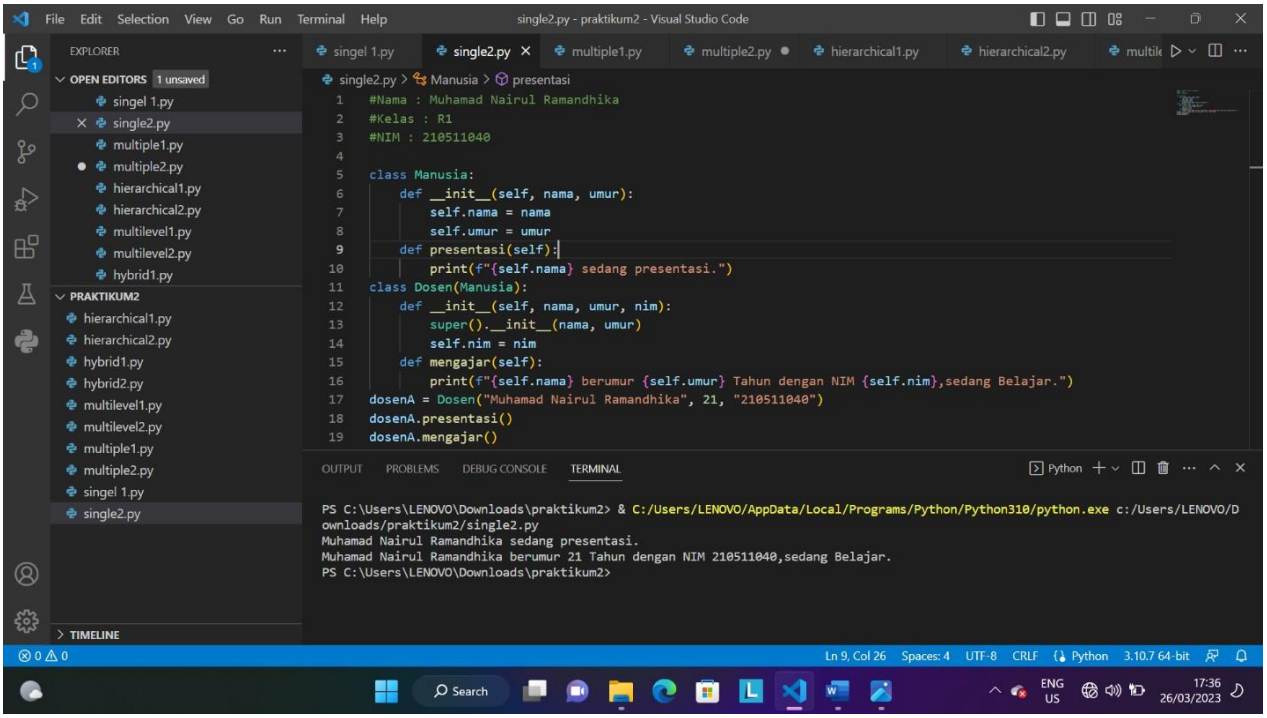


Single2

Script :

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Manusia:
    def __init__(self, nama, umur):
        self.nama = nama
        self.umur = umur
    def presentasi(self):
        print(f"{self.nama} sedang presentasi.")
class Dosen(Manusia):
    def __init__(self, nama, umur, nim):
        super().__init__(nama, umur)
        self.nim = nim
    def mengajar(self):
        print(f"{self.nama} berumur {self.umur} Tahun dengan NIM
{self.nim},sedang Belajar.")
dosenA = Dosen("Muhamad Nairul Ramandhika", 21, "210511040")
dosenA.presentasi()
dosenA.mengajar()
```

hasil running program :



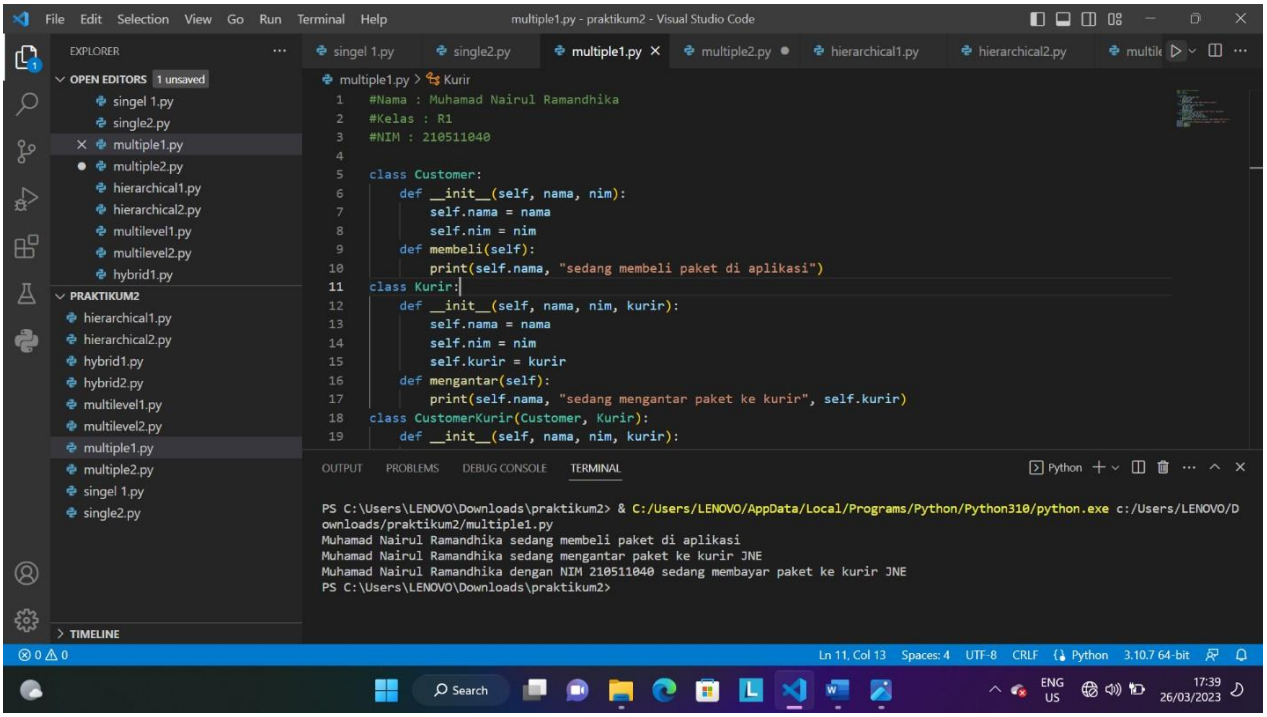
Multiple1

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Customer:
    def __init__(self, nama, nim):
        self.nama = nama
        self.nim = nim
    def membeli(self):
        print(self.nama, "sedang membeli paket di aplikasi")
class Kurir:
    def __init__(self, nama, nim, kurir):
        self.nama = nama
        self.nim = nim
        self.kurir = kurir
    def mengantar(self):
        print(self.nama, "sedang mengantar paket ke kurir", self.kurir)
class CustomerKurir(Customer, Kurir):
    def __init__(self, nama, nim, kurir):
```

```
        Customer.__init__(self, nama, nim)
        Kurir.__init__(self, nama, nim, kurir)
    def membayar(self):
        print(self.nama,"dengan NIM", self.nim, "sedang membayar paket ke kurir",
self.kurir)
mhs_kurir = CustomerKurir("Muhamad Nairul Ramandhika", "210511040", "JNE")
mhs_kurir.membeli()
mhs_kurir.mengantar()
mhs_kurir.membayar()
```

Hasil running program:



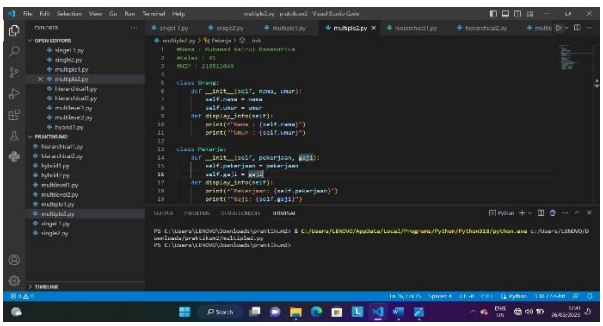
Multiple2

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

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 Pekerja:
    def __init__(self, pekerjaan, gaji):
        self.pekerjaan = pekerjaan
        self.gaji = gaji
    def display_info(self):
        print(f"Pekerjaan: {self.pekerjaan}")
        print(f"Gaji: {self.gaji}")

class Pribadi:
    def __init__(self, hobi, alamat):
        self.hobi = hobi
        self.alamat = alamat
    def display_info(self):
        print(f"Hobi: {self.hobi}")
        print(f"Alamat: {self.alamat}")

class PribadiPekerja(Orang, Pekerja, Pribadi):
    def __init__(self, nama, umur, pekerjaan, gaji, hobi, alamat):
        Orang.__init__(self, nama, umur)
        Pekerja.__init__(self, pekerjaan, gaji)
        Pribadi.__init__(self, hobi, alamat)
    def display_info(self):
        super().display_info()
        print(f"Pekerjaan : {self.pekerjaan}")
        print(f"Gaji      : {self.gaji}")
        print(f"Hobi      : {self.hobi}")
        print(f"Alamat    : {self.alamat}")
        pribadi_pekerjaC = PribadiPekerja("Muhamad Nairul Ramandhika", 21, "HRD",
"15 Juta", "maen bola", "kuningan")
        pribadi_pekerjaC.display_info()
```

hasil running program:



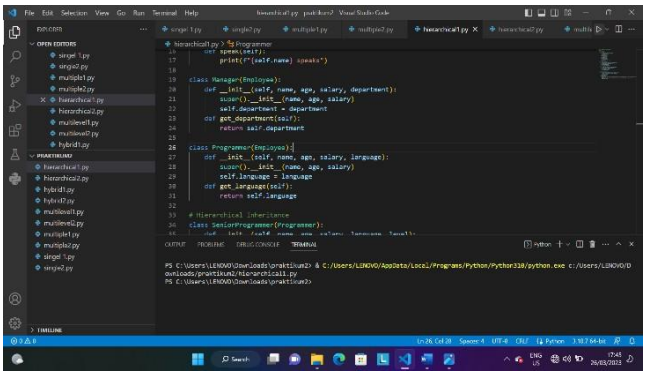
Hierarchical1

Script:

```python
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Employee:
    def __init__(self, name, age, salary):
        self.name = name
        self.age = age
        self.salary = salary
    def get_name(self):
        return self.name
    def get_age(self):
        return self.age
    def get_salary(self):
        return self.salary
    def speak(self):
        print(f"{self.name} speaks")

class Manager(Employee):
    def __init__(self, name, age, salary, department):
        super().__init__(name, age, salary)
        self.department = department
    def get_department(self):
        return self.department

class Programmer(Employee):
    def __init__(self, name, age, salary, language):
        super().__init__(name, age, salary)
        self.language = language
    def get_language(self):
        return self.language

# Hierarchical Inheritance
class SeniorProgrammer(Programmer):
    def __init__(self, name, age, salary, language, level):
        super().__init__(name, age, salary, language)
        self.level = level
    def get_level(self):
        return self.level
    def speak(self):
```

```
        print(f"{self.name} Berumur {self.age} berpenghasilan
{self.salary}/Bulan, karena menguasai bahasa {self.language} level
{self.level}.")
        print("="*54)
        Pengunjung = SeniorProgrammer("Muhamad Nairul Ramandhika", 22,"Rp
6000.000", "Python", 2)
        Pengunjung.speak()
```

Hasil running program:



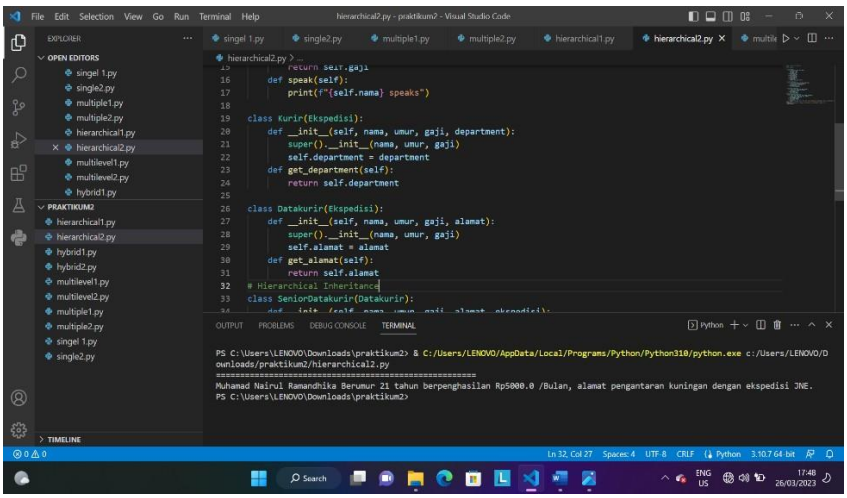
Hierarchical2

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Ekspedisi:
    def __init__(self, nama, umur, gaji):
        self.nama = nama
        self.umur = umur
        self.gaji = gaji
    def get_nama(self):
        return self.nama
    def get_umur(self):
        return self.umur
    def get_gaji(self):
        return self.gaji
    def speak(self):
        print(f"{self.nama} speaks")

class Kurir(Ekspedisi):
    def __init__(self, nama, umur, gaji, department):
        super().__init__(nama, umur, gaji)
```

```
        self.department = department
    def get_department(self):
        return self.department

class Datakurir(Ekspedisi):
    def __init__(self, nama, umur, gaji, alamat):
        super().__init__(nama, umur, gaji)
        self.alamat = alamat
    def get_alamat(self):
        return self.alamat
# Hierarchical Inheritance
class SeniorDatakurir(Datakurir):
    def __init__(self, nama, umur, gaji, alamat, ekspedisi):
        super().__init__(nama, umur, gaji, alamat)
        self.ekspedisi = ekspedisi
    def get_ekspedisi(self):
        return self.ekspedisi
    def data(self):
        print(f"{self.nama} Berumur {self.umur} tahun berpenghasilan
Rp{self.gaji} /Bulan, alamat pengantaran {self.alamat} dengan ekspedisi
{self.ekspedisi}.")
print("="*54)
Pengunjung = SeniorDatakurir("Muhamad Nairul Ramandhika", 21, 5000.000,
"kuningan", "JNE")
Pengunjung.data()
```

Hasil running program:

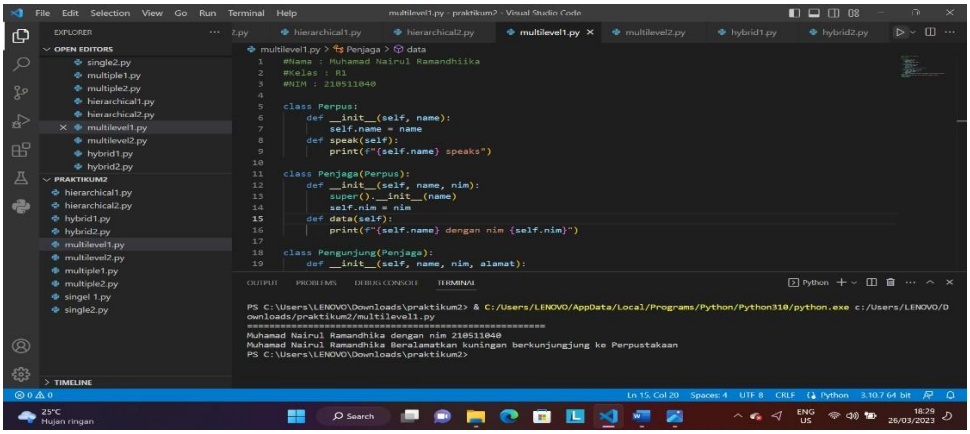


Multilevel1

Script:

```
#Nama : Muhamad Nairul Ramandhiika
#Kelas : R1
#NIM : 210511040

class Perpus:
    def __init__(self, name):
        self.name = name
    def speak(self):
        print(f"{self.name} speaks")

class Penjaga(Perpus):
    def __init__(self, name, nim):
        super().__init__(name)
        self.nim = nim
    def data(self):
        print(f"{self.name} dengan nim {self.nim}")

class Pengunjung(Penjaga):
    def __init__(self, name, nim, alamat):
        super().__init__(name, nim)
        self.alamat = alamat
    def speak(self):
        print(f"{self.name} Beralamatkan {self.alamat} berkunjungjung ke
Perpustakaan")
print("="*54)
Pengunjung = Pengunjung("Muhamad Nairul Ramandhika", 210511040, "kuningan")
Pengunjung.data()
Pengunjung.speak()
```

Hasil running program:

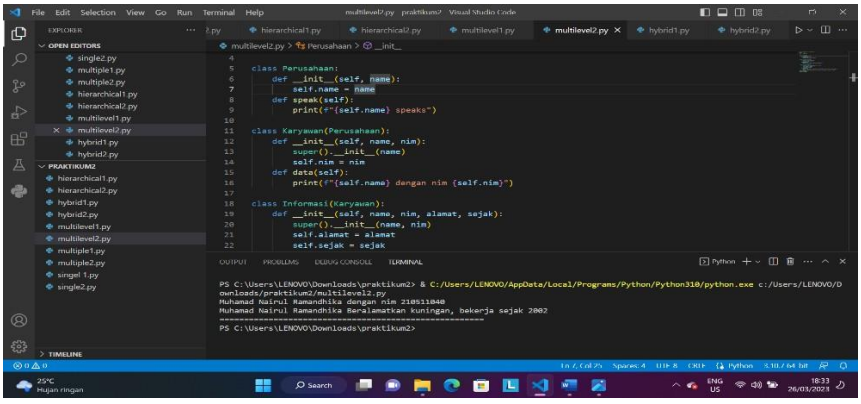


Multilevel2

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Perusahaan:
    def __init__(self, name):
        self.name = name
    def speak(self):
        print(f"{self.name} speaks")

class Karyawan(Perusahaan):
    def __init__(self, name, nim):
        super().__init__(name)
        self.nim = nim
    def data(self):
        print(f"{self.name} dengan nim {self.nim}")

class Informasi(Karyawan):
    def __init__(self, name, nim, alamat, sejak):
        super().__init__(name, nim)
        self.alamat = alamat
        self.sejak = sejak
    def speak(self):
        print(f"{self.name} Beralamatkan {self.alamat}, bekerja sejak
{self.sejak}")
        print("="*54)
Informasi = Informasi("Muhamad Nairul Ramandhika", 210511040, "kuningan", 2002)
Informasi.data()
Informasi.speak()
```

Hasil running program:



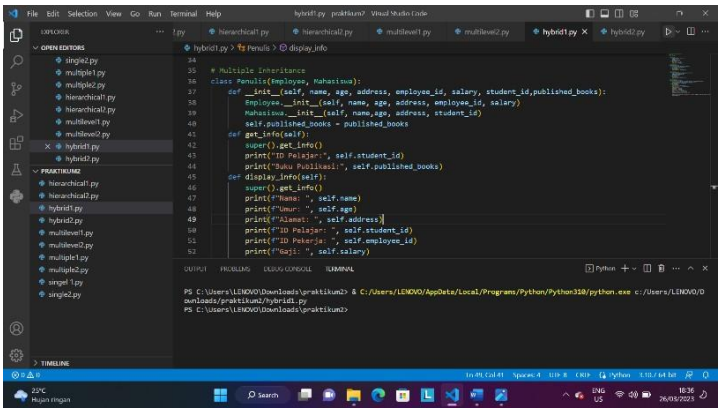
Hybrid1

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Seseorang:
    def __init__(self, name, age, address):
        self.name = name
        self.age = age
        self.address = address
    def get_info(self):
        print("Nama:", self.name)
        print("Umur:", self.age)
        print("Alamat:", self.address)

# Single Inheritance
class Mahasiswa(Seseorang):
    def __init__(self, name, age, address, student_id):
        super().__init__(name, age, address)
        self.student_id = student_id
    def get_info(self):
        super().get_info()
        print("ID Pelajar:", self.student_id)

# Single Inheritance
class Employee(Seseorang):
    def __init__(self, name, age, address, employee_id, salary):
        super().__init__(name, age, address)
        self.employee_id = employee_id
        self.salary = salary
    def get_info(self):
        super().get_info()
        print("ID Pekerja:", self.employee_id)
        print("Gaji:", self.salary)

# Multiple Inheritance
class Penulis(Employee, Mahasiswa):
    def __init__(self, name, age, address, employee_id, salary,
student_id,published_books):
        Employee.__init__(self, name, age, address, employee_id, salary)
        Mahasiswa.__init__(self, name,age, address, student_id)
        self.published_books = published_books
    def get_info(self):
```

```
        super().get_info()
        print("ID Pelajar:", self.student_id)
        print("Buku Publikasi:", self.published_books)
    def display_info(self):
        super().get_info()
        print(f"Nama: ", self.name)
        print(f"Umur: ", self.age)
        print(f"Alamat: ", self.address)
        print(f"ID Pelajar: ", self.student_id)
        print(f"ID Pekerja: ", self.employee_id)
        print(f"Gaji: ", self.salary)
        print(f"Buku Publikasi: ", self.published_books)

        katakA = Penulis("Muhamad Nairul Ramandhika", 20, "kuningan", 210511050,
"7.000.000", 231102, "pelangi")
        katakA.display_info()
```

Hasil running program:



Hybrid2

Script:

```
#Nama : Muhamad Nairul Ramandhika
#Kelas : R1
#NIM : 210511040

class Seseorang:
    def __init__(self, name, age, address):
        self.name = name
        self.age = age
        self.address = address
    def get_info(self):
        print("Nama:", self.name)
```

```
        print("Umur:", self.age)
        print("Alamat:", self.address)

# Single Inheritance
class Mahasiswa(Seseorang):
    def __init__(self, name, age, address, student_id):
        super().__init__(name, age, address)
        self.student_id = student_id
    def get_info(self):
        super().get_info()
        print("ID Pelajar:", self.student_id)
```

```
# Single Inheritance
class Employee(Seseorang):
    def __init__(self, name, age, address, employee_id, salary):
        super().__init__(name, age, address)
        self.employee_id = employee_id
        self.salary = salary
    def get_info(self):
        super().get_info()
        print("ID Pekerja:", self.employee_id)
        print("Gaji:", self.salary)

# Multiple Inheritance
class Penulis(Employee, Mahasiswa):
    def __init__(self, name, age, address, employee_id, salary, student_id,
published_books):
        Employee.__init__(self, name, age, address, employee_id, salary)
        Mahasiswa.__init__(self, name, age, address, student_id)
        self.published_books = published_books
    def get_info(self):
        super().get_info()
        print("ID Pelajar:", self.student_id)
        print("Buku Publikasi:", self.published_books)
    def display_info(self):
        super().get_info()
        print(f"Nama: ", self.name)
        print(f"Umur: ", self.age)
        print(f"Alamat: ", self.address)
        print(f"ID Pelajar: ", self.student_id)
        print(f"ID Pekerja: ", self.employee_id)
        print(f"Gaji: ", self.salary)
        print(f"Buku Publikasi: ", self.published_books)
```

```
katakA = Penulis("Muhamad Nairul Ramandhika", 20, "kuningan", 210511040,
"7.000.000", 231102, "pelangi")
katakA.display_info()
```

Hasil running program: