LAPORAN PRAKTIKUM

PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023

Prepared By:

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Nim: 210511128

Tugas 2
Nama : Ahmad Trihadi
NIM : 210511128
Kelas : R3/C

```python
class Animal:
    def _init_(self, name, color):
        self.name = name
        self.color = color
    def get_name(self):
        return self.name
    def get_color(self):
        return self.color


class Mammal(Animal):
    def _init_(self, name, color, fur):
        super()._init_(name, color)
        self.fur = fur
    def get_fur(self):
        return self.fur


class Bird(Animal):
    def _init_(self, name, color, wingspan):
        super()._init_(name, color)
        self.wingspan = wingspan
    def get_wingspan(self):
        return self.wingspan


# Hierarchical Inheritance
class Reptile(Mammal):
    def _init_(self, name, color, fur, scale):
        super()._init_(name, color, fur)
        self.scale = scale
    def get_scale(self):
        return self.scale
```

```python
#Nama   : Lala 'Adilah
#NIM    : 210511117
#Kelas  : R3

class Hewan:
    def __init__(self, nama):
        self.nama = nama
    def Suara(self):
        print(f"{self.nama} suara")
class Ular(Hewan):
    def __init__(self, nama, panjang):
        super().__init__(nama)
        self.panjang = panjang
    def Merayap(self):
        print(f"seekor ular {self.nama} sepanjang { self.panjang} merayap diatas pohon")
class Sanca(Ular):
    def __init__(self, nama, panjang, warna):
        super().__init__(nama, panjang)
        self.warna = warna
    def Berganti_kulit(self):
        print(f"seekor ular {self.nama} yang berwarna {self.warna} sedang berganti kulit")
sanca = Sanca("Sanca", 2, "hitam belang")
sanca.Merayap()
```

Windows PowerShell
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PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2> & C:/Users/hp/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/hp/Documents/TIF/Semester 4/PBO II/Pertemuan 2/Latihan 2/Contoh 4 Multi level Inheritance.py"
seekor ular Sanca sepanjang 2 merayap diatas pohon
seekor ular Sanca yang berwarna hitam belang sedang berganti kulit
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2>

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```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C


# Single Inheritance
class GameObject:
    def _init_(self, x, y):
        self.x = x
        self.y = y


# Single Inheritance
class Drawable:
    def draw(self):
        print("Drawing object at: ", self.x, self.y)


# Single Inheritance
class Moveable:
    def move(self, dx, dy):
        self.x += dx
        self.y += dy


# Multiple Inheritance
class Player(GameObject, Drawable, Moveable):
    def _init_(self, x, y):
        super()._init_(x, y)
    def update(self):
        self.move(1, 1)
        self.draw()
```
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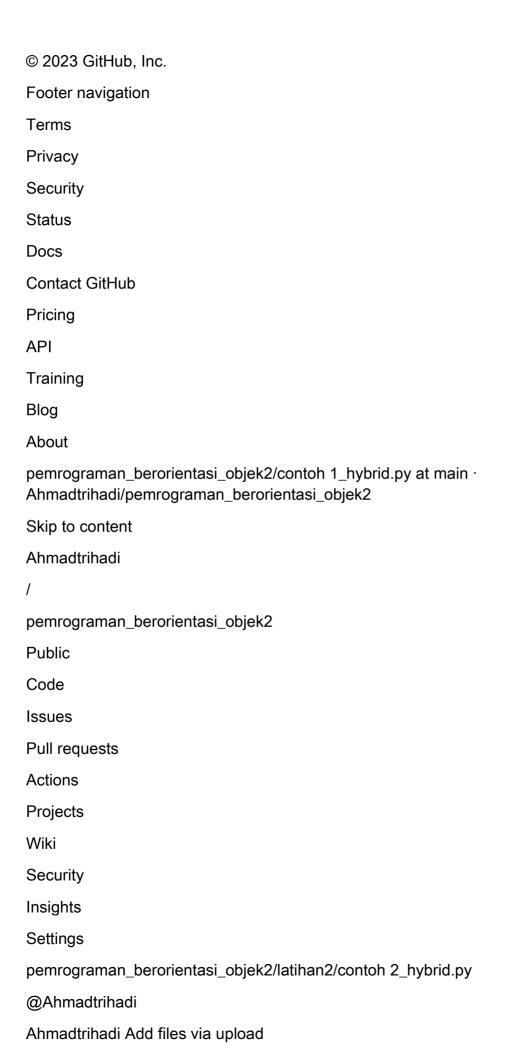pemrograman_berorientasi_objek2/latihan2/contoh 2_hybrid.py

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48 lines (41 sloc) 1.49 KB

```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C

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 Mahasiswa(Seseorang):
    def _init_(self, name, age, address, student_id):
        super()._init_…
```

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```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C

class Shape:
    def _init_(self, name, color):
        self.name = name
        self.color = color
    def get_name(self):
        return self.name
    def get_color(self):
        return self.color


class TwoDimensional(Shape):
    def _init_(self, name, color, sides):
        super()._init_(name, color)
        self.sides = sides
    def get_sides(self):
        return self.sides
…
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C
```

```python
# Single Inheritance
class GameObject:
    def _init_(self, x, y):
        self.x = x
        self.y = y


# Single Inheritance
class Drawable:
    def draw(self):
        print("Drawing object at: ", self.x, self.y)


# Single Inheritance
class Moveable:
    def move(self, dx, dy):
        self.x += dx
        self.y += dy


# Multiple Inheritance
class Player(GameObject, Drawable, Moveable):
    def _init_(self, x, y):
        super()._init_(x, y)
    def update(self):
        self.move(1, 1)
        self.draw()
```

```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C


# Single Inheritance
class GameObject:
    def _init_(self, x, y):
        self.x = x
        self.y = y


# Single Inheritance
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    def draw(self):
        print("Drawing object at: ", self.x, self.y)


# Single Inheritance
class Moveable:
    def move(self, dx, dy):
        self.x += dx
        self.y += dy


# Multiple Inheritance
class Player(GameObject, Drawable, Moveable):
    def _init_(self, x, y):
        super()._init_(x, y)
    def update(self):
        self.move(1, 1)
        self.draw()
```

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```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C

class Shape:
    def _init_(self, name, color):
        self.name = name
        self.color = color
    def get_name(self):
        return self.name
    def get_color(self):
        return self.color
```

```python
class TwoDimensional(Shape):
    def _init_(self, name, color, sides):
        super()._init_(name, color)
        self.sides = sides
    def get_sides(self):
        return self.sides


class ThreeDimensional(Shape):
    def _init_(self, name, color, faces):
        super()._init_(name, color)
        self.faces = faces
    def get_faces(self):
        return self.faces


# Hierarchical Inheritance
class Sphere(ThreeDimensional):
    def _init_(self, name, color, faces, radius):
        super()._init_(name, color, faces)
        self.radius = radius
    def get_radius(self):
        return self.radius
```

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```python
# Nama : Ahmad Trihadi
# NIM : 210511128
# Kelas : R3/C

class Seseorang:
    def _init_(self, name, age, address):
```

```python
        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 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("Student ID:", 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("Employee ID:", self.employee_id)
        print("Salary:", self.salary)


# Multiple Inheritance
class Penulis(Employee, Mahasiswa):
    def _init_(self, name, age, address, employee_id, salary, student_id,
```

```python
    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("Student ID:", self.student_id)
        print("Published Books:", self.published_books)
```

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```python
#Nama    : Lala 'Adilah
#NIM     : 210511117
#Kelas   : R3

class Kendaraan:
    def __init__(self, jenis, merk, warna):
        self.jenis = jenis
        self.merk = merk
        self.warna = warna
    def Melaju(self):
        print(f"sebuah {self.jenis} sedang melaju pelan")
class Mobil(Kendaraan):
    def __init__(self, jenis, merk, warna, cc):
        super().__init__(jenis, merk, warna)
        self.cc = cc
    def Parkir(self):
        print(f"{self.jenis} dengan merk { self.merk}  warna {self.warna} sedang parkir dipinggir jalan")
mobilA = Mobil("Mobil","Pajero Sport", "Hitam", 2477)
mobilA.Melaju()
mobilA.Parkir()
```

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```
Windows PowerShell
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rtemuan 2/Latihan 2/Contoh 1 Single Inheritance.py"
sebuah Mobil sedang melaju pelan
Mobil dengan merk Pajero Sport  warna Hitam sedang parkir dipinggir jalan
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2>
```

```python
#Nama    : Lala 'Adilah
#NIM     : 210511117
#Kelas   : R3

class Mahasiswa:
    def __init__(self, nama, nim):
        self.nama = nama
        self.nim = nim
    def belajar(self):
        print(self.nama, "sedang mengerjakan tugas")
class Pekerja:
    def __init__(self, nama, pekerjaan):
        self.nama = nama
        self.pekerjaan = pekerjaan
    def bekerja(self):
        print(self.nama, "sedang membuat laporan pekerjaan")
class MahasiswaPekerja(Mahasiswa, Pekerja):
    def __init__(self, nama, nim, pekerjaan):
        Mahasiswa.__init__(self, nama, nim)
        Pekerja.__init__(self, nama, pekerjaan)
    def mengobrol(self):
        print(self.nama, "sedang mengobrol")
mhs_pekerja = MahasiswaPekerja("Shabira", "230001", "Akuntan")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
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rtemuan 2/Latihan 2/Contoh 2 Multiple Inheritance.py"
Shabira sedang mengerjakan tugas
Shabira sedang membuat laporan pekerjaan
Shabira sedang mengobrol
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2>
```

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toh 2 Multiple Inheritance.py   Contoh 3 Hiearchical Inheritance.py ×   Contoh 4 Multi level Inheritance.py   Contoh 5 Hybrid Inheritance.py

Contoh 3 Hiearchical Inheritance.py >

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- Contoh 1 Single Inheritance.png
- Contoh 1 Single Inheritance.py
- Contoh 2 Multiple Inheritance.png
- Contoh 2 Multiple Inheritance.py
- Contoh 3 Hiearchical Inheritance.py
- Contoh 4 Multi level Inheritance.png
- Contoh 4 Multi level Inheritance.py
- Contoh 5 Hybrid Inheritance.png
- Contoh 5 Hybrid Inheritance.py

```python
18            SepedaMotor().__init__(nama)
19            self.tipe = tipe
20        def get_tipe(self):
21            return self.tipe
22    # turunan Hiearchical Inheritance
23    class Truk(Mobil):
24        def __init__(self, nama, merek, kapasitas):
25            Truk().__init__(nama, merek)
26            self.kapasitas = kapasitas
27        def get_kapasitas(self):
28            return self.kapasitas
29    # turunan Hierarchical Inheritance
30    class MotorListrik(SepedaMotor):
31        def __init__(self, nama, tipe, daya):
32            Truk().__init__(nama, tipe)
33            self.daya = daya
34        def get_daya(self):
35            return self.daya
36
37
38
```

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PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2> & C:/Users/hp/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/hp/Documents/TIF/Semester 4/PBO II/Pertemuan 2/Latihan 2/Contoh 3 Hiearchical Inheritance.py"
PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2>

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EXPLORER

toh 2 Multiple Inheritance.py   Contoh 3 Hiearchical Inheritance.py ●   Contoh 4 Multi level Inheritance.py   Contoh 5 Hybrid Inheritance.py ×

Contoh 5 Hybrid Inheritance.py >

LATIHAN 2
- Contoh 1 Single Inheritance.png
- Contoh 1 Single Inheritance.py
- Contoh 2 Multiple Inheritance.png
- Contoh 2 Multiple Inheritance.py
- Contoh 3 Hiearchical Inheritance.py
- Contoh 4 Multi level Inheritance.png
- Contoh 4 Multi level Inheritance.py
- Contoh 5 Hybrid Inheritance.py

```python
13            print("alamat:", self.alamat)
14    # Single Inheritance
15    class Mahasiswa(Seseorang):
16        def __init__(self, nama, umur, alamat, mahasiswa_id):
17            super().__init__(nama, umur, alamat)
18            self.mahasiswa_id = mahasiswa_id
19        def get_info(self):
20            super().get_info()
21            print("Mahasiswa_id:", self.mahasiswa_id)
22    # Single Inheritance
23    class Karyawan(Seseorang):
24        def __init__(self, nama, umur, alamat, karyawan_id, salary):
25            super().__init__(nama, umur, alamat)
26            self.karyawan_id = karyawan_id
27            self.salary = salary
28        def get_info(self):
29            super().get_info()
30            print("Karyawan_id:", self.karyawan_id)
31            print("Salary:", self.salary)
32    # Multiple Inheritance
33    class Penulis(Karyawan, Mahasiswa):
34        def __init__(self, nama, umur, alamat, karyawan_id, salary, mahasiswa_id,published_books):
35            Karyawan.__init__(self, nama, umur, alamat, karyawan_id, salary)
36            Mahasiswa.__init__(self, nama, umur, alamat, mahasiswa_id)
```

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PS C:\Users\hp\Documents\TIF\Semester 4\PBO II\Pertemuan 2\Latihan 2>

Ln 42, Col 1   Spaces: 4   UTF-8   CRLF   Python   3.10.8 64-bit