



PEMROGRAMAN BERORIENTASI OBJEK LANJUT

2023



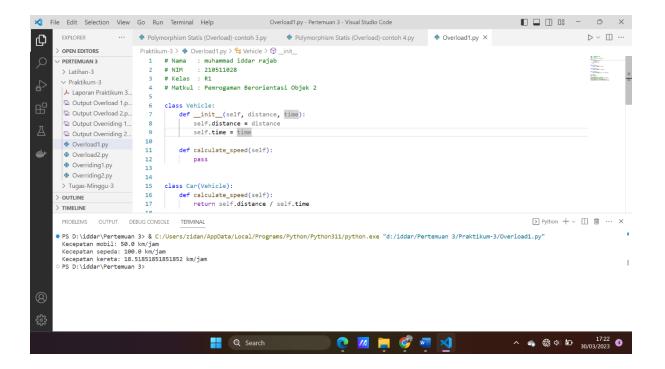
Prepared By:

Nama: muhammad iddar rajab

Kelas: R1

Nim: 210511028

```
1. Overload 1
2. # Nama : muhammad iddar rajab
3. # NIM : 210511028
4. # Kelas : R1
5. # Matkul : Pemrogaman Berorientasi Objek 2
7. class Vehicle:
8.
     def __init__(self, distance, time):
         self.distance = distance
9.
10.
          self.time = time
11.
     def calculate_speed(self):
12.
13.
          pass
14.
15.class Car(Vehicle):
16. def calculate speed(self):
17.
          return self.distance / self.time
18.
19.class Bike(Vehicle):
     def calculate_speed(self):
21.
           return self.distance / (self.time / 2)
22.
23.class Train(Vehicle):
24. def calculate_speed(self):
25.
           return (self.distance * 1000) / (self.time * 3600)
26.
27. car = Car(100, 2)
28.bike = Bike(50, 1)
29.train = Train(200, 3)
30.
31.# Output: Kecepatan mobil: 50.0 km/jam
32.print("Kecepatan mobil:", car.calculate_speed(), "km/jam")
33.# Output: Kecepatan sepeda: 100.0 km/jam
34.print("Kecepatan sepeda:", bike.calculate_speed(), "km/jam")
35.# Output: Kecepatan kereta: 18.51851851852 km/jam
36.print("Kecepatan kereta:", train.calculate_speed(), "km/jam")
37.
```

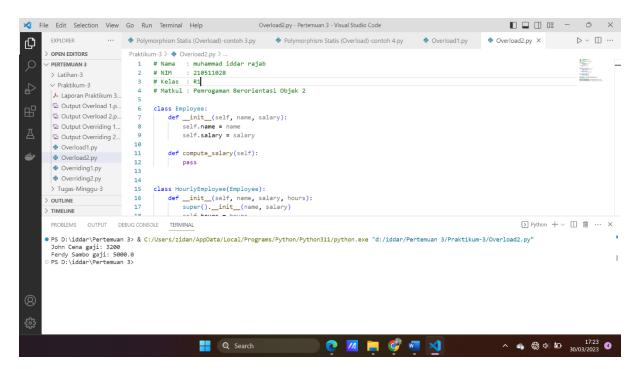


2. overload 2

```
# Nama
         : muhammad iddar rajab
         : 210511028
# NIM
# Kelas : R1
# Matkul : Pemrogaman Berorientasi Objek 2
class Employee:
    def __init__(self, name, salary):
        self.name = name
        self.salary = salary
    def compute_salary(self):
        pass
class HourlyEmployee(Employee):
    def __init__(self, name, salary, hours):
        super().__init__(name, salary)
        self.hours = hours
    def compute_salary(self):
        return self.salary * self.hours
class SalariedEmployee(Employee):
    def compute salary(self):
        return self.salary / 12
```

```
hourly_employee = HourlyEmployee("John Cena", 20, 160)
salaried_employee = SalariedEmployee("Ferdy Sambo", 60000)

# Output: John Cena gaji: 3200
print(hourly_employee.name, "gaji:", hourly_employee.compute_salary())
# Output: Ferdy Sambo gaji: 5000.0
print(salaried_employee.name, "gaji:", salaried_employee.compute_salary())
```



3. overriding 1

```
# Nama : muhammad iddar rajab
# NIM : 210511028
# Kelas : R1
# Matkul : Pemrogaman Berorientasi Objek 2

def print_sorted(obj):
    sorted_obj = sorted(obj)
    print("Objek yang diurutkan:", sorted_obj)

print_sorted([3, 1, 4, 2, 5]) # output: Objek yang diurutkan: [1, 2, 3, 4, 5]
# output: Objek yang diurutkan: ['apple', 'banana', 'orange']
print_sorted(("orange", "apple", "banana"))
```

4. overriding2

```
# Nama : muhammad iddar rajab
# NIM
        : 210511028
# Kelas : R1
# Matkul : Pemrogaman Berorientasi Objek 2
class Runnable:
    def run(self):
        pass
class Car(Runnable):
    def run(self):
        print("Mobil berjalan.")
class Bike(Runnable):
    def run(self):
        print("Sepeda berjalan.")
class Bus(Runnable):
    def run(self):
        print("Bus berjalan.")
```

```
def run_all(objects):
    for obj in objects:
        obj.run()
```

```
objects = [Car(), Bike(), Bus()]
run_all(objects)
```

