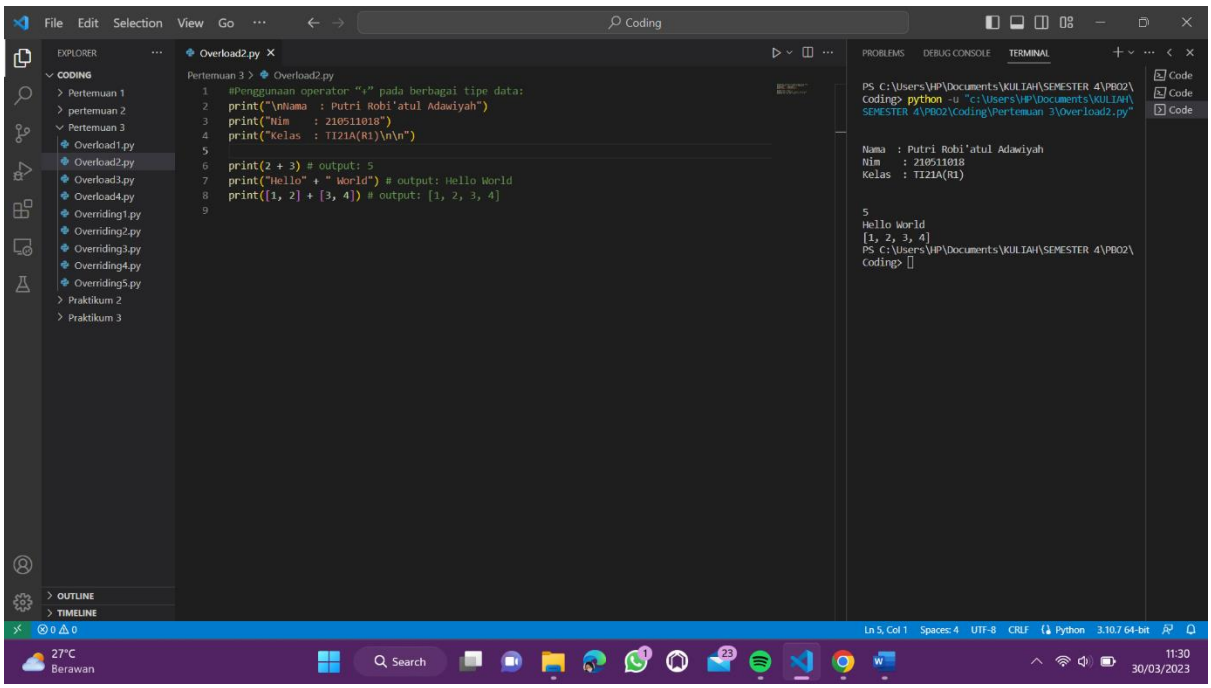
Nama : Putri Robi'atul Adawiyah

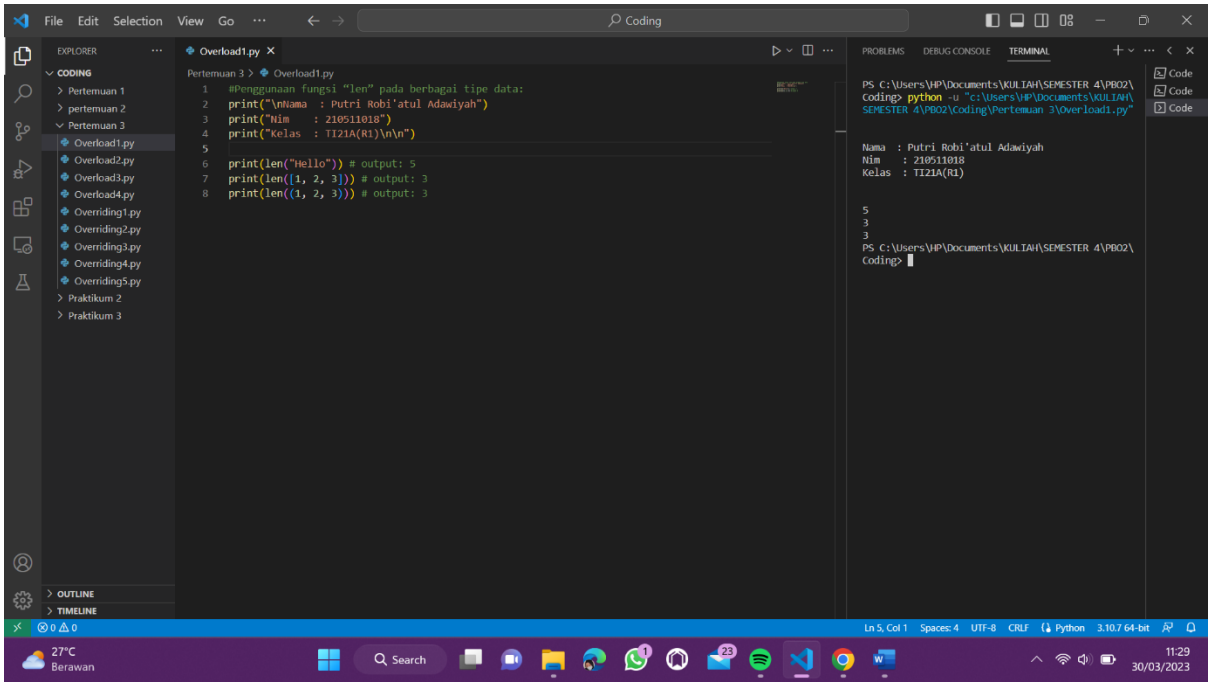
Nim : 210511018

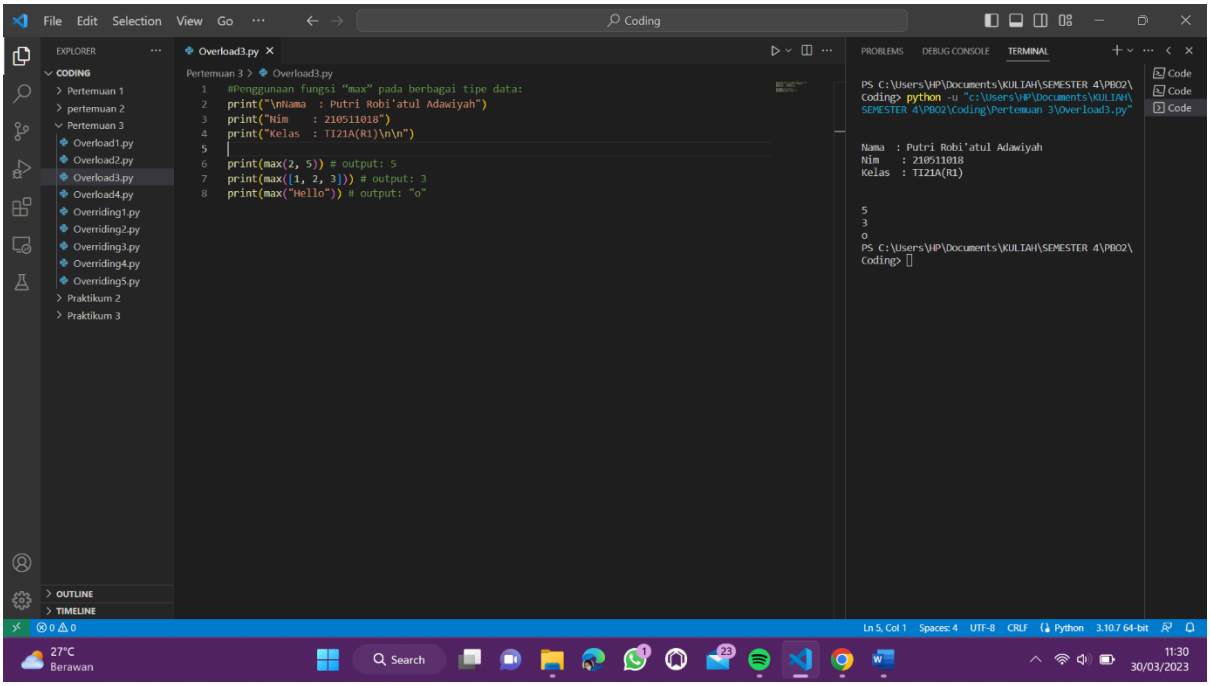
Kelas : TI21A (R1)

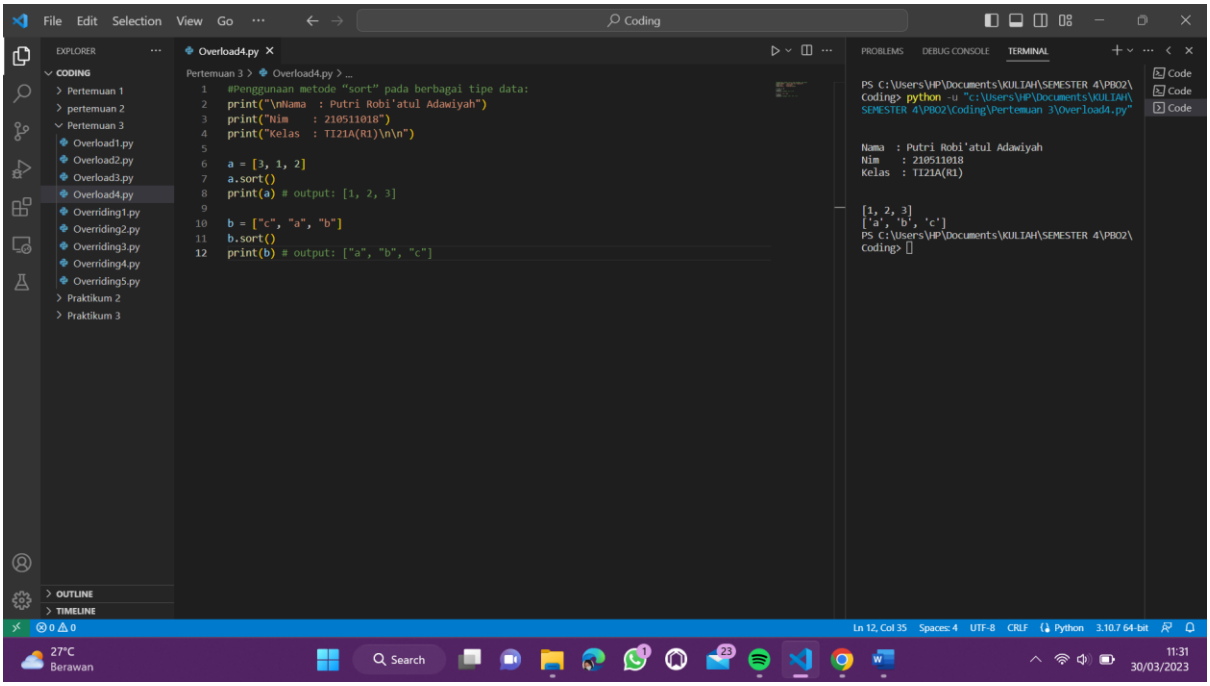
Latihan 3 PBO2

1. Polymorphism statis (Overload)

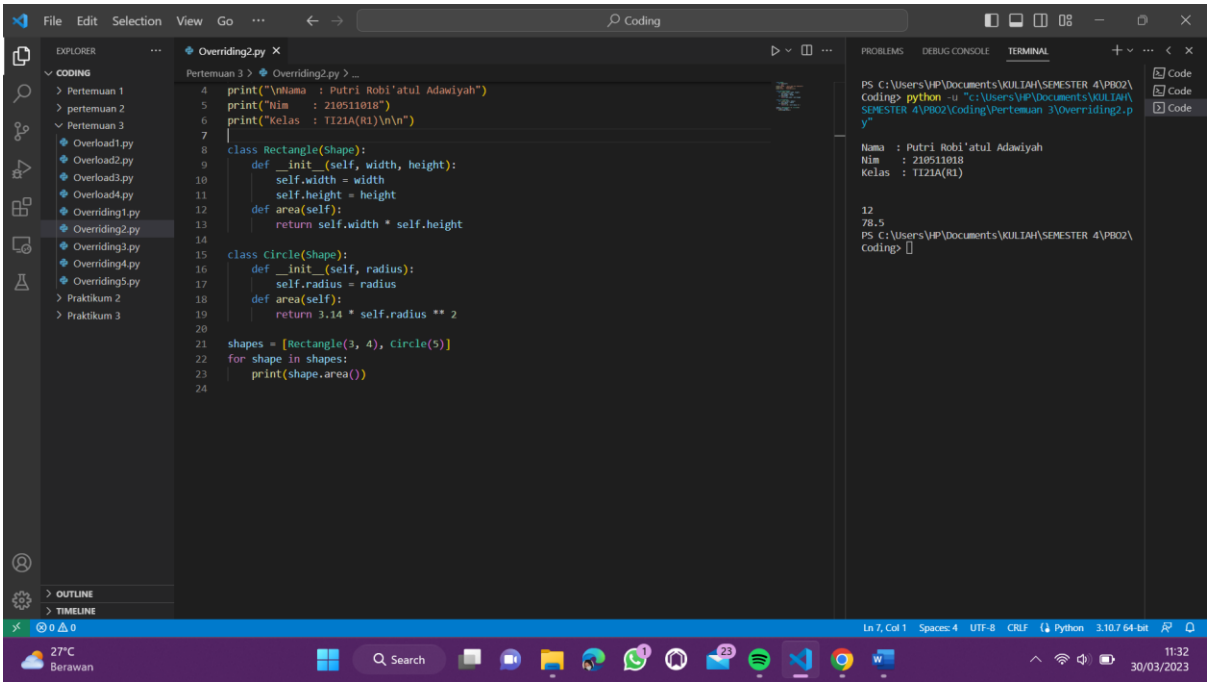


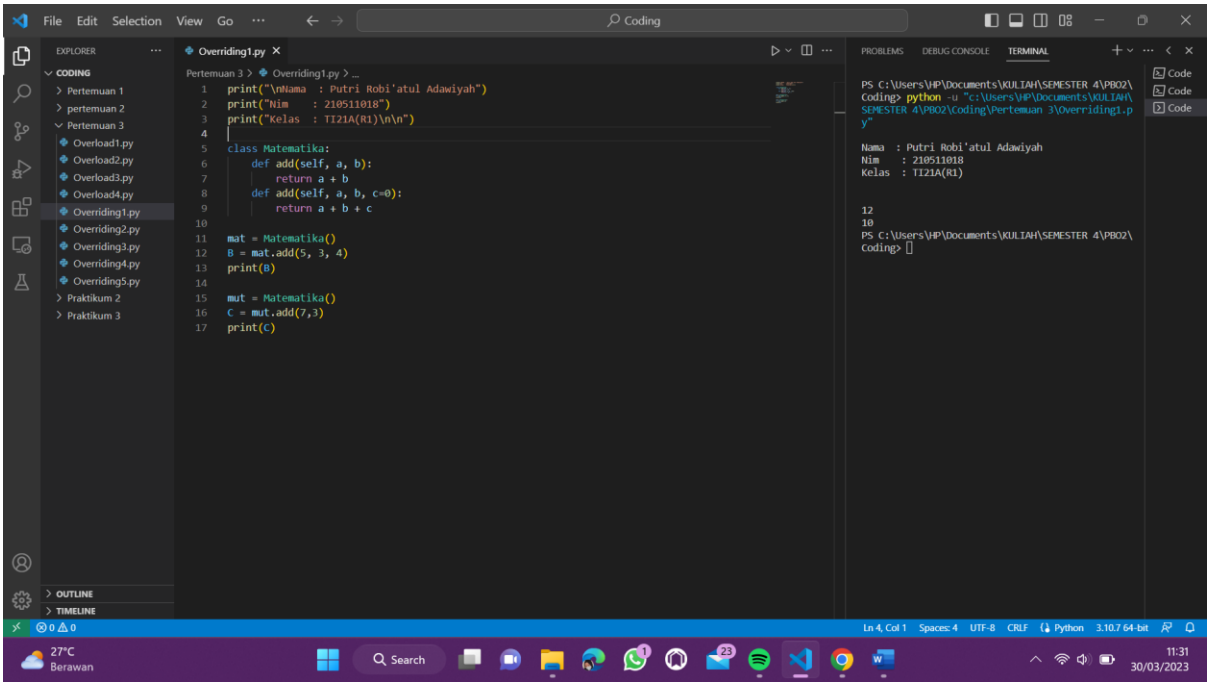


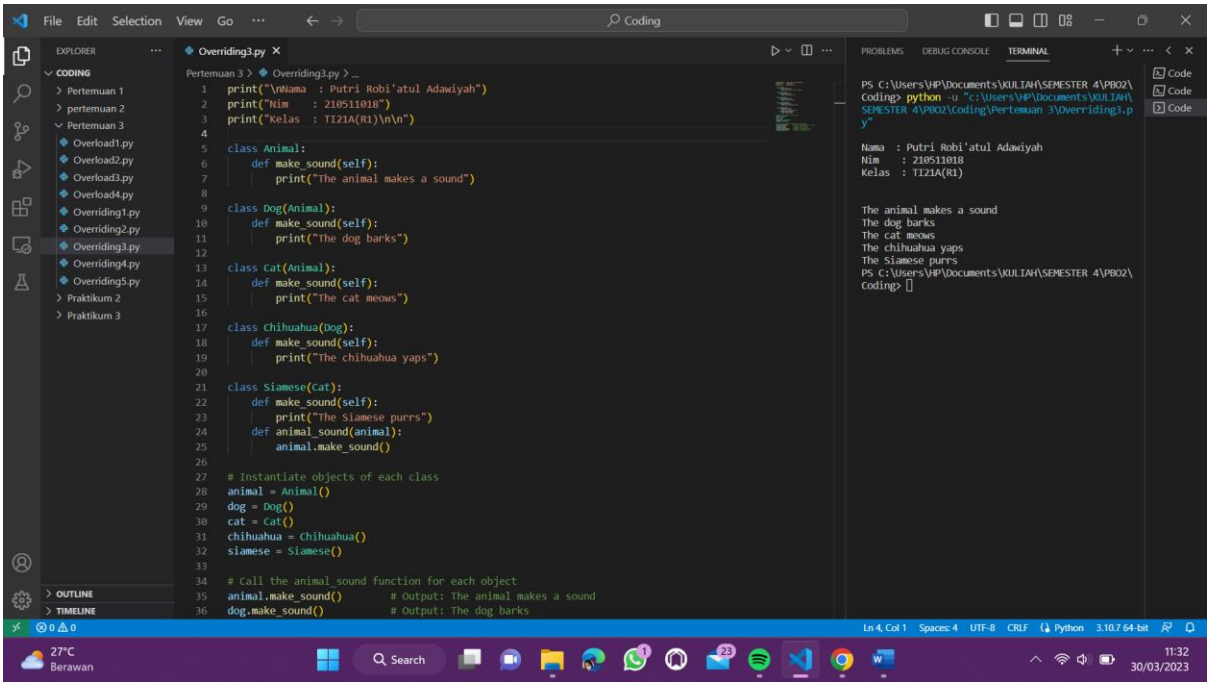


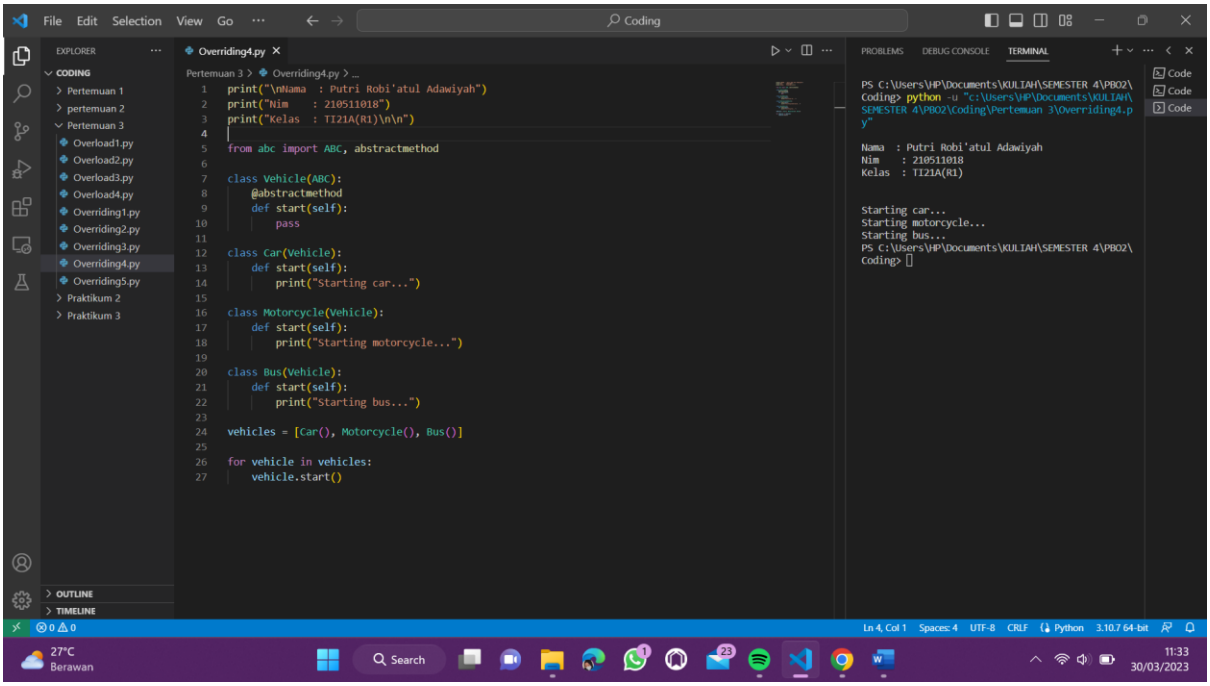


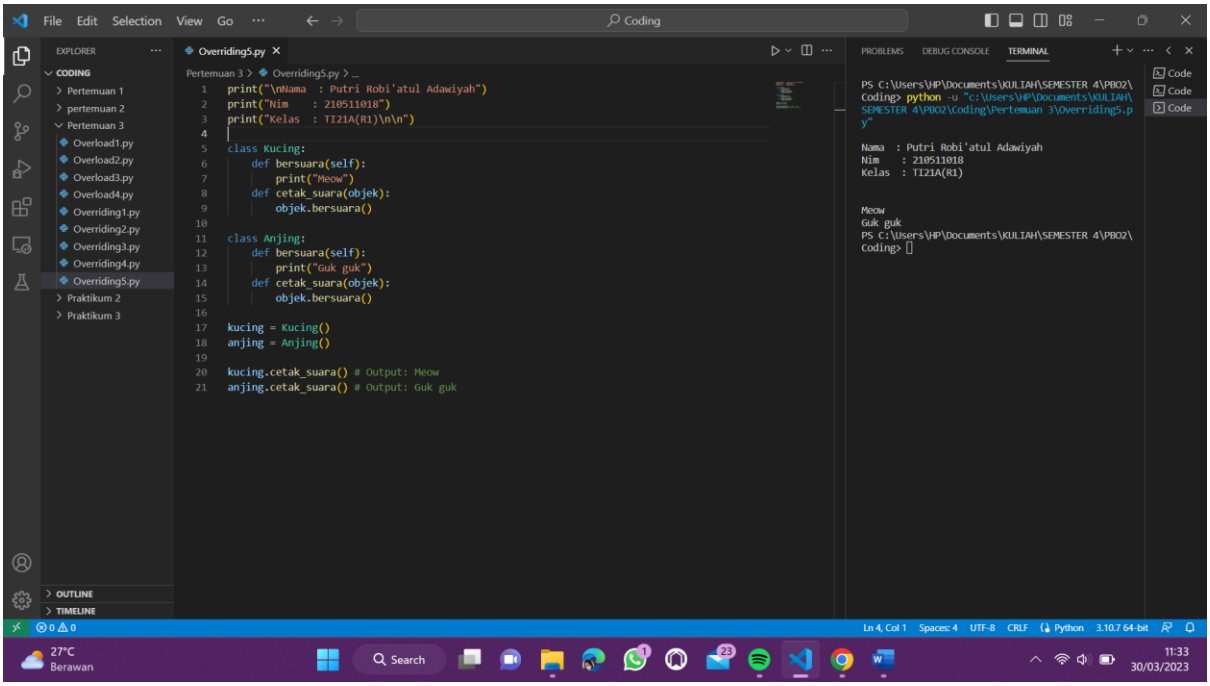
2. Polymorphism dinamis (Overriding)


File Edit Selection View Go
Coding
EXPLORER
CODING
Pertemuan 1
pertemuan 2
Pertemuan 3
Overload1.py
Overload2.py
Overload3.py
Overload4.py
Overriding1.py
Overriding2.py
Overriding3.py
Overriding4.py
Overriding5.py
Praktikum 2
Praktikum 3
Overriding2.py
Pertemuan 3 > Overriding2.py > ...
print("\nNama : Putri Robi'atul Adawiyah")
print("Nim : 210511018")
print("Kelas : TI21A(R1)\n\n")
class Rectangle(Shape):
def __init__(self, width, height):
self.width = width
self.height = height
def area(self):
return self.width * self.height
class Circle(Shape):
def __init__(self, radius):
self.radius = radius
def area(self):
return 3.14 * self.radius ** 2
shapes = [Rectangle(3, 4), Circle(5)]
for shape in shapes:
print(shape.area())
PROBLEMS DEBUG CONSOLE TERMINAL
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding\Pertemuan 3\Overriding2.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)
12
78.5
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding>
OUTLINE
TIMELINE
Ln 7, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
27°C
Berawan
Search
11:32
30/03/2023


File Edit Selection View Go
Coding
EXPLORER
CODING
Pertemuan 1
pertemuan 2
Pertemuan 3
Overload1.py
Overload2.py
Overload3.py
Overload4.py
Overriding1.py
Overriding2.py
Overriding3.py
Overriding4.py
Overriding5.py
Praktikum 2
Praktikum 3
Overriding1.py
Pertemuan 3 > Overriding1.py > ...
print("\nNama : Putri Robi'atul Adawiyah")
print("Nim : 210511018")
print("Kelas : TI21A(R1)\n\n")
class Matematika:
def add(self, a, b):
return a + b
def add(self, a, b, c=0):
return a + b + c
mat = Matematika()
B = mat.add(5, 3, 4)
print(B)
mut = Matematika()
C = mut.add(7,3)
print(C)
PROBLEMS DEBUG CONSOLE TERMINAL
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding\Pertemuan 3\Overriding1.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)
12
10
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding>
OUTLINE
TIMELINE
Ln 4, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
27°C
Berawan
Search
11:31
30/03/2023


File Edit Selection View Go
Coding
EXPLORER
CODING
Pertemuan 1
pertemuan 2
Pertemuan 3
Overload1.py
Overload2.py
Overload3.py
Overload4.py
Overriding1.py
Overriding2.py
Overriding3.py
Overriding4.py
Overriding5.py
Praktikum 2
Praktikum 3
OUTLINE
TIMELINE
Overriding3.py
Pertemuan 3 > Overriding3.py > ...
print("\nNama : Putri Robi'atul Adawiyah")
print("Nim : 210511018")
print("Kelas : TI21A(R1)\n\n")
class Animal:
def make_sound(self):
print("The animal makes a sound")
class Dog(Animal):
def make_sound(self):
print("The dog barks")
class Cat(Animal):
def make_sound(self):
print("The cat meows")
class Chihuahua(Dog):
def make_sound(self):
print("The chihuahua yaps")
class Siamese(Cat):
def make_sound(self):
print("The Siamese purrs")
def animal_sound(animal):
animal.make_sound()
# Instantiate objects of each class
animal = Animal()
dog = Dog()
cat = Cat()
chihuahua = Chihuahua()
siamese = Siamese()
# Call the animal_sound function for each object
animal.make_sound() # Output: The animal makes a sound
dog.make_sound() # Output: The dog barks
PROBLEMS DEBUG CONSOLE TERMINAL
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding\Pertemuan 3\Overriding3.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)
The animal makes a sound
The dog barks
The cat meows
The chihuahua yaps
The Siamese purrs
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding>
Code
Code
Code
Ln 4, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
27°C
Berawan
Search
11:32
30/03/2023


File Edit Selection View Go
Coding
EXPLORER
CODING
Pertemuan 1
pertemuan 2
Pertemuan 3
Overload1.py
Overload2.py
Overload3.py
Overload4.py
Overriding1.py
Overriding2.py
Overriding3.py
Overriding4.py
Overriding5.py
Praktikum 2
Praktikum 3
OUTLINE
TIMELINE
Overriding4.py
Pertemuan 3 > Overriding4.py > ...
print("\nNama : Putri Robi'atul Adawiyah")
print("Nim : 210511018")
print("Kelas : TI21A(R1)\n\n")
from abc import ABC, abstractmethod
class Vehicle(ABC):
@abstractmethod
def start(self):
pass
class Car(Vehicle):
def start(self):
print("Starting car...")
class Motorcycle(Vehicle):
def start(self):
print("Starting motorcycle...")
class Bus(Vehicle):
def start(self):
print("Starting bus...")
vehicles = [Car(), Motorcycle(), Bus()]
for vehicle in vehicles:
vehicle.start()
PROBLEMS DEBUG CONSOLE TERMINAL
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding\Pertemuan 3\Overriding4.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)
Starting car...
Starting motorcycle...
Starting bus...
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding>
Code
Code
Code
Ln 4, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
27°C
Berawan
Search
11:33
30/03/2023


File Edit Selection View Go
Coding
EXPLORER
CODING
Pertemuan 1
pertemuan 2
Pertemuan 3
Overload1.py
Overload2.py
Overload3.py
Overload4.py
Overriding1.py
Overriding2.py
Overriding3.py
Overriding4.py
Overriding5.py
Praktikum 2
Praktikum 3
OUTLINE
TIMELINE
Overriding5.py
Pertemuan 3 > Overriding5.py > ...
1 print("\nNama : Putri Robi'atul Adawiyah")
2 print("Nim : 210511018")
3 print("Kelas : TI21A(R1)\n\n")
4
5 class Kucing:
6 def bersuara(self):
7 print("Meow")
8 def cetak_suara(objek):
9 objek.bersuara()
10
11 class Anjing:
12 def bersuara(self):
13 print("Guk guk")
14 def cetak_suara(objek):
15 objek.bersuara()
16
17 kucing = Kucing()
18 anjing = Anjing()
19
20 kucing.cetak_suara() # Output: Meow
21 anjing.cetak_suara() # Output: Guk guk
PROBLEMS DEBUG CONSOLE TERMINAL
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding> python -u "c:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding\Pertemuan 3\Overriding5.py"
Nama : Putri Robi'atul Adawiyah
Nim : 210511018
Kelas : TI21A(R1)
Meow
Guk guk
PS C:\Users\HP\Documents\KULIAH\SEMESTER 4\PBO2\Coding>
Code
Code
Code
Ln 4, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
27°C
Berawan
Search
11:33
30/03/2023