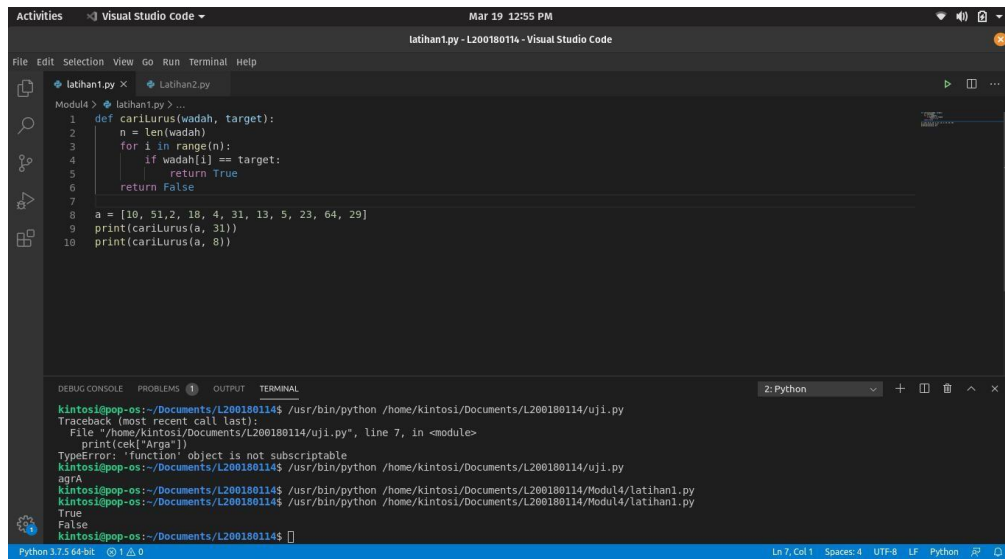


Nama : Karina Muslimah
NIM : L200180138
Kelas : E

Latihan 1

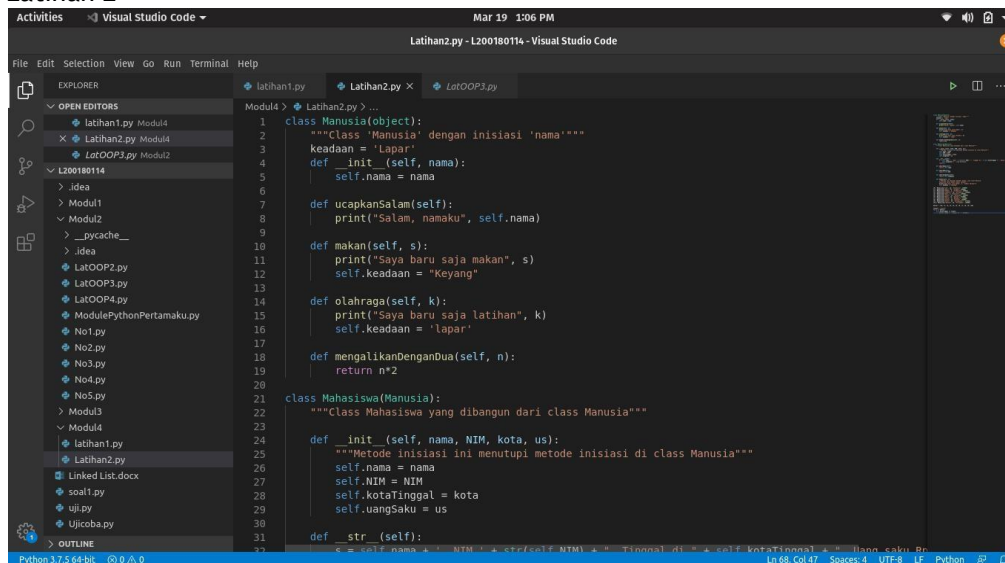


The screenshot shows the Visual Studio Code interface with a Python file named `latihan1.py` open. The code defines a function `carilurus(wadah, target)` that checks if a target value is in a list. It then calls this function with a list `a` and the value `31`. The terminal output shows the execution of the script, which prints `True` and `False` for the respective calls.

```
1 def carilurus(wadah, target):
2     n = len(wadah)
3     for i in range(n):
4         if wadah[i] == target:
5             return True
6     return False
7
8 a = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
9 print(carilurus(a, 31))
10 print(carilurus(a, 0))
```

```
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/uji.py
Traceback (most recent call last):
  File "/home/kintosi/Documents/L200180114/uji.py", line 7, in <module>
    print(cek("Arga"))
          ^^^^^
TypeError: 'function' object is not subscriptable
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/latihan1.py
aqrA
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/latihan1.py
True
False
kintosi@pop-os:~/Documents/L200180114$
```

Latihan 2



The screenshot shows the Visual Studio Code interface with a Python file named `Latihan2.py` open. The code defines a class `Manusia` with methods `ucapkanSalam`, `makan`, `olahraga`, and `mengalikanDua`. It also defines a subclass `Mahasiswa` that inherits from `Manusia` and has its own `__init__` method. The terminal output shows the execution of the script, which prints the results of the methods.

```
1 class Manusia(object):
2     """Class 'Manusia' dengan inisiasi 'nama'"""
3     keadaan = 'Lapar'
4     def __init__(self, nama):
5         self.nama = nama
6
7     def ucapkanSalam(self):
8         print("Salam, namaku", self.nama)
9
10    def makan(self, s):
11        print("Saya baru saja makan", s)
12        self.keadaan = "Kenyang"
13
14    def olahraga(self, k):
15        print("Saya baru saja latihan", k)
16        self.keadaan = 'lapar'
17
18    def mengalikanDua(self, n):
19        return n*2
20
21 class Mahasiswa(Manusia):
22     """Class Mahasiswa yang dibangun dari class Manusia"""
23     def __init__(self, nama, NIM, kota, us):
24         """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
25         self.nama = nama
26         self.NIM = NIM
27         self.kotaTinggal = kota
28         self.uangSaku = us
29
30     def __str__(self):
31         s = self.nama + " NIM " + str(self.NIM) + " tinggal di " + self.kotaTinggal + " Uang saku Rp
```

Activities Visual Studio Code Mar 19 1:07 PM

Latihan2.py - L200180114 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

Latihan1.py Latihan2.py x LatOOP3.py

Modul4 > Latihan2.py > ...

```
21 class Mahasiswa(Manusia):
22     """Class Mahasiswa yang dibangun dari class Manusia"""
23
24     def __init__(self, nama, NIM, kota, us):
25         """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
26         self.nama = nama
27         self.NIM = NIM
28         self.kotaTinggal = kota
29         self.uangSaku = us
30
31     def __str__(self):
32         s = self.nama + ', NIM ' + str(self.NIM) + '. Tinggal di ' + self.kotaTinggal + '. Uang saku Rp
33         | self.uangSaku + ' tiap bulannya.'
34         return s
35
36     def ambilNama(self):
37         return self.nama
38
39     def ambilNIM(self):
40         return self.NIM
41
42     def ambilUangSaku(self):
43         return self.uangSaku
44
45     def makan(self, s):
46         """Metode ini menutupi metode 'makan' -nya class Manusia.
47         Mahasiswa kalau makan sambil belajar"""
48         print("Saya baru saja makan", s, "sambil belajar")
49         self.keadaan = "kenyang"
50
51 c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
```

Python 3.7.5 64-bit 0 0

Activities Visual Studio Code Mar 19 1:07 PM

Latihan2.py - L200180114 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

Latihan1.py Latihan2.py x LatOOP3.py

Modul4 > Latihan2.py > ...

```
50
51 c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
52 c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
53 c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
54 c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
55 c4 = Mahasiswa("Eka", 4, "Boyolali", 240000)
56 c5 = Mahasiswa("Fandi", 31, "Salatiga", 250000)
57 c6 = Mahasiswa("Deni", 13, "Klaten", 245000)
58 c7 = Mahasiswa("Galuh", 5, "Wonogiri", 245000)
59 c8 = Mahasiswa("Janto", 23, "Klaten", 245000)
60 c9 = Mahasiswa("Hasan", 64, "Karanganyar", 270000)
61 c10 = Mahasiswa("Khalid", 29, "Purwodadi", 265000)
62
63 Daftar = [c0, c1, c2, c3, c4, c5, c6, c7, c8, c9, c10]
64
65 target = "Klaten"
66 for i in Daftar:
67     if i.kotaTinggal == target:
68         print(i.nama + ' Tinggal di ' + target)
```

DEBUG CONSOLE PROBLEMS OUTPUT TERMINAL

2: Python

```
kintosi@pop-os: ~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan2.py
Deni Tinggal di Klaten
Janto Tinggal di Klaten
kintosi@pop-os: ~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan2.py
Deni Tinggal di Klaten
Janto Tinggal di Klaten
kintosi@pop-os: ~/Documents/L200180114$
```

Python 3.7.5 64-bit 0 0

Latihan 3

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project structure for 'L200180114'. The main editor window shows the file 'Latihan3.py' with the following Python code:

```
1 def cariTerkecil(kumpulan):
2     n = len(kumpulan)
3     terkecil = kumpulan[0]
4     for i in range(1, n):
5         if kumpulan[i] < terkecil:
6             terkecil = kumpulan[i]
7
8     return terkecil
9
10 a = [12, 34, 5, 2, 4, 54, 3]
11 print(cariTerkecil(a))
```

The terminal at the bottom shows the execution of the script:

```
Janto Tinggal di Klaten
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan2.py
Deni Tinggal di Klaten
Janto Tinggal di Klaten
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan3.py
2
kintosi@pop-os:~/Documents/L200180114$
```

Latihan 4

The screenshot shows the Visual Studio Code interface with the file explorer on the left displaying a project structure for 'L200180114'. The main editor window shows the file 'Latihan4.py' with the following Python code:

```
1 def binse(kumpulan, target):
2     low = 0
3     high = len(kumpulan)
4
5     while low <= high:
6         mid = (high + low) // 2
7         if kumpulan[mid] == target:
8             return True
9         elif target < kumpulan[mid]:
10            high = mid - 1
11        else:
12            low = mid + 1
13    return False
14
15 a = [2, 4, 5, 10, 13, 18, 23, 29, 31, 51, 64]
16 print(binse(a, 10))
```

The terminal at the bottom shows the execution of the script:

```
Nama Deni Uang Saku 245000
Nama Galuh Uang Saku 245000
Nama Janto Uang Saku 245000
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan4.py
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Latihan4.py
True
kintosi@pop-os:~/Documents/L200180114$
```

Uang Saku Terkecil

The screenshot shows the Visual Studio Code editor with the following details:

- Explorer Pane:** Shows a project named 'L200180114'. The file 'Soal1.py' is selected under the 'Modul4' folder.
- Editor Pane:** Displays the code for 'Soal1.py'. The code defines a class 'Manusia' with two methods:


```
def makan(self, s):
    """Metode ini menutupi metode 'makan'-nya class Manusia.
    Mahasiswa kalau makan sambil belajar"""
    print("Saya baru saja makan", s, "sambil belajar")
    self.keadaan = "kenyang"

def cariUang(Daftar):
    terkecil = Daftar[0].uangSaku
    namaMaha = Daftar[0].nama
    for i in Daftar:
        if i.uangSaku < terkecil:
            terkecil = i.uangSaku
            namaMaha = i.nama
    return ("{} uang saku {}".format(namaMaha, terkecil))
```
- Terminal Pane:** Shows the output of running the script:


```
Nama Khalid Uang Saku 265000
None
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Soal3.py
Nama Hasan Uang Saku 270000
Nama Khalid Uang Saku 265000
None
kintosi@pop-os:~/Documents/L200180114$
```

Uang Saku Terbesar

The screenshot shows the Visual Studio Code interface with a Python file named `Soal2.py` open. The code defines a class `Manusia` with two methods: `makan` and `cariUang`. The `makan` method takes parameters `s` and `sambel`, and updates the instance's `keadaan` attribute. The `cariUang` method takes a parameter `Daftar` and returns a dictionary containing the instance's name and the total amount from the list. Below the class definition, several instances of `Manusia` are created and their details are printed.

```
"""Metode ini menutupi metode 'makan'-nya class Manusia. Mahasiswa kalau makan sambil belajar"""
print("Saya baru saja makan", s, "sambil belajar")
self.keadaan = "kenyang"

def cariUang(Daftar):
    terkecil = Daftar[0].uangSaku
    namaMaha = Daftar[0].nama
    for i in Daftar:
        if i.uangSaku > terkecil:
            terkecil = i.uangSaku
            namaMaha = i.nama
    return "{} uang saku {}".format(namaMaha, terkecil)

c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
c4 = Mahasiswa("Eka", 4, "Boyolali", 240000)
c5 = Mahasiswa("Fandi", 31, "Salatiga", 250000)
c6 = Mahasiswa("Deni", 13, "Klaten", 245000)
c7 = Mahasiswa("Galuh", 5, "Wonogiri", 245000)
c8 = Mahasiswa("Janta", 23, "Klaten", 245000)
```

Uang Saku Kurang Dari 250K

The screenshot shows the Visual Studio Code interface with a Python file named `Soal2.py` open. The code defines a `makan` method for a `Manusia` class and a `cariUang` method that filters a list of students based on their pocket money. The terminal output shows the results of the `cariUang` method.

```
def makan(self, s):
    """Metode ini menutupi metode 'makan' -nya class Manusia.
    Mahasiswa kalau makan sambil belajar"""
    print("Saya baru saja makan", s, "sambil belajar")
    self.keadaan = "kenyang"

def cariUang(Daftar):
    uang = []
    namaMaha = []
    for i in Daftar:
        if i.uangSaku < 250000:
            uang.append(i.uangSaku)
            namaMaha.append(i.nama)

    for i in range(len(uang)):
        print("Nama", namaMaha[i], "Uang Saku", uang[i])

c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
c4 = Mahasiswa("Eka", 4, "Bojolali", 240000)
```

Terminal Output:

```
Nama Khalid Uang Saku 265000
None
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Soal3.py
Nama Hasan Uang Saku 270000
Nama Khalid Uang Saku 265000
None
kintosi@pop-os:~/Documents/L200180114$
```

Uang Saku Lebih Dari 250K

The screenshot shows the Visual Studio Code interface with a Python file named `Soal4.py` open. The code defines a `makan` method for a `Manusia` class and a `cariUang` method that filters a list of students based on their pocket money. The terminal output shows the results of the `cariUang` method.

```
def makan(self, s):
    """Metode ini menutupi metode 'makan' -nya class Manusia.
    Mahasiswa kalau makan sambil belajar"""
    print("Saya baru saja makan", s, "sambil belajar")
    self.keadaan = "kenyang"

def cariUang(Daftar):
    uang = []
    namaMaha = []
    for i in Daftar:
        if i.uangSaku > 250000:
            uang.append(i.uangSaku)
            namaMaha.append(i.nama)

    for i in range(len(uang)):
        print("Nama", namaMaha[i], "Uang Saku", uang[i])

c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
c4 = Mahasiswa("Eka", 4, "Bojolali", 240000)
```

Terminal Output:

```
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Soal3.py
Nama Hasan Uang Saku 270000
Nama Khalid Uang Saku 265000
None
kintosi@pop-os:~/Documents/L200180114$ /usr/bin/python /home/kintosi/Documents/L200180114/Modul4/Soal2.py
Hasan uang saku 270000
kintosi@pop-os:~/Documents/L200180114$
```