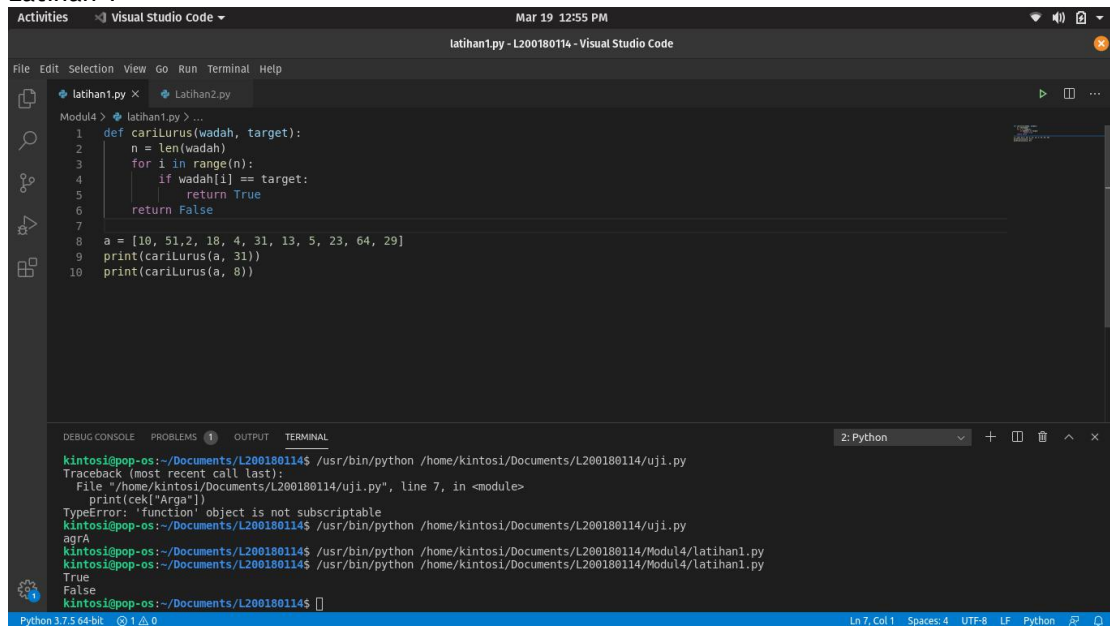


Nama : Arga Dwi Ardinata
NIM : L200180114
Kelas : E

Latihan 1



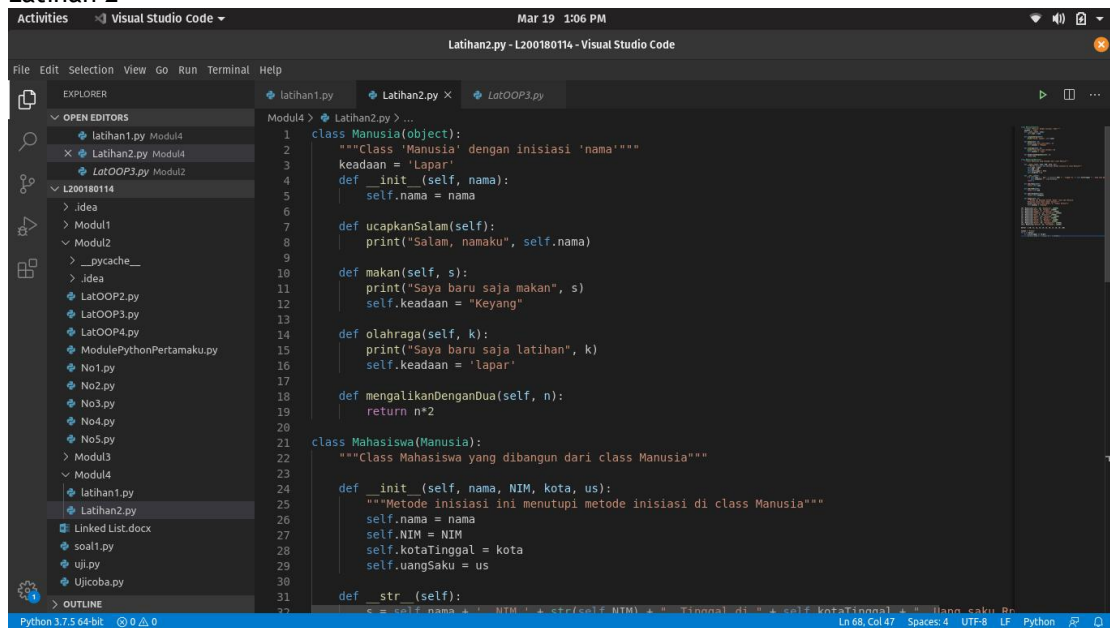
The screenshot shows the Visual Studio Code interface with a Python file named `latihan1.py` open. The code defines a function `carilurus(wadah, target)` that checks if a target value is in a list. It then calls this function with a list `a` and the value 31, and again with the value 8. The terminal output shows a traceback error: `TypeError: 'function' object is not subscriptable`, occurring at line 7 of the file. The error message indicates that the function object is being treated as a list, which is incorrect. The status bar at the bottom shows 'Python 3.7.5 64-bit' and 'Ln 7, Col 1'.

```
def carilurus(wadah, target):
    n = len(wadah)
    for i in range(n):
        if wadah[i] == target:
            return True
    return False

a = [10, 51, 2, 18, 4, 31, 13, 5, 23, 64, 29]
print(carilurus(a, 31))
print(carilurus(a, 8))
```

```
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
```

Latihan 2



The screenshot shows the Visual Studio Code interface with a Python file named `Latihan2.py` open. The code defines two classes: `Manusia` and `Mahasiswa`. The `Manusia` class has attributes `nama` and `keadaan`, and methods `ucapkanSalam`, `makan`, `olahraga`, and `mengalikanDenganDua`. The `Mahasiswa` class inherits from `Manusia` and has attributes `NIM`, `kota`, and `uangSaku`, and a method `__init__`. The terminal output shows the execution of the code, displaying the output of the methods. The status bar at the bottom shows 'Python 3.7.5 64-bit' and 'Ln 68, Col 47'.

```
class Manusia(object):
    """Class 'Manusia' dengan inisiasi 'nama'"""
    keadaan = 'Lapar'
    def __init__(self, nama):
        self.nama = nama
    def ucapkanSalam(self):
        print("Salam, namaku", self.nama)
    def makan(self, s):
        print("Saya baru saja makan", s)
        self.keadaan = "Keyang"
    def olahraga(self, k):
        print("Saya baru saja latihan", k)
        self.keadaan = 'lapar'
    def mengalikanDenganDua(self, n):
        return n*2

class Mahasiswa(Manusia):
    """Class Mahasiswa yang dibangun dari class Manusia"""
    def __init__(self, nama, NIM, kota, us):
        """Metode inisiasi ini menutupi metode inisiasi di class Manusia"""
        self.nama = nama
        self.NIM = NIM
        self.kotaTinggal = kota
        self.uangSaku = us
    def __str__(self):
        s = self.nama + ', NIM ' + str(self.NIM) + ', Tinggal di ' + self.kotaTinggal + ', Uang saku Rp ' + str(self.uangSaku) + '\n'
```

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

OPEN EDITORS

latihan1.py Modul4
X Latihan2.py Modul4
LatOOP3.py Modul2

L200180114

.idea
> Modul1
Modul2
> __pycache__
> .idea
LatOOP2.py
LatOOP3.py
LatOOP4.py
ModulePythonPertamaku.py
No1.py
No2.py
No3.py
No4.py
No5.py
> Modul3
Modul4
latihan1.py
Latihan2.py
Linked List.docx
soal1.py
uji.py
Ujicoba.py

OUTLINE

Python 3.7.5 64-bit 0 0 0

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)
```

Ln 49, Col 33 Spaces: 4 UTF-8 LF Python

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

OPEN EDITORS

latihan1.py Modul4
X Latihan2.py Modul4
LatOOP3.py Modul2

L200180114

.idea
> Modul1
Modul2
> __pycache__
> .idea
LatOOP2.py
LatOOP3.py
LatOOP4.py
ModulePythonPertamaku.py
No1.py
No2.py
No3.py
No4.py
No5.py
> Modul3
Modul4
latihan1.py
Latihan2.py
Linked List.docx
soal1.py
uji.py
Ujicoba.py

OUTLINE

Python 3.7.5 64-bit 0 0 0

Modul4 > Latihan2.py > ...

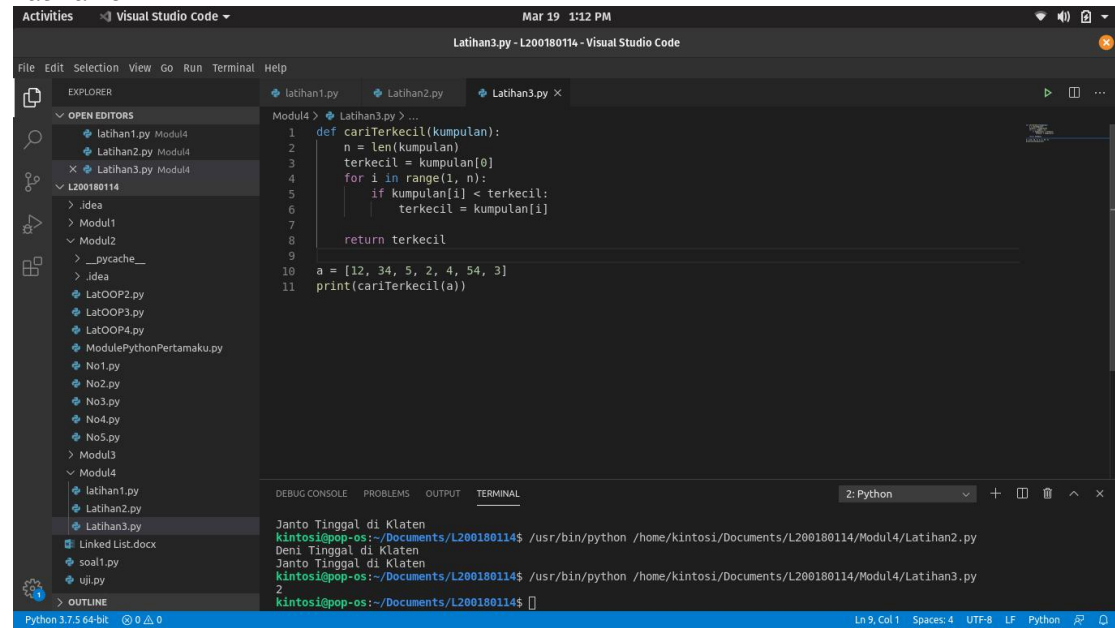
```
50
51 c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
52 c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
53 c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
54 c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
55 c4 = Mahasiswa("Eka", 4, "Boyolali", 240000)
56 c5 = Mahasiswa("Fandi", 31, "Salatiga", 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$
```

Ln 68, Col 48 Spaces: 4 UTF-8 LF Python

Latihan 3



Visual Studio Code interface showing the implementation of a function to find the minimum value in a list.

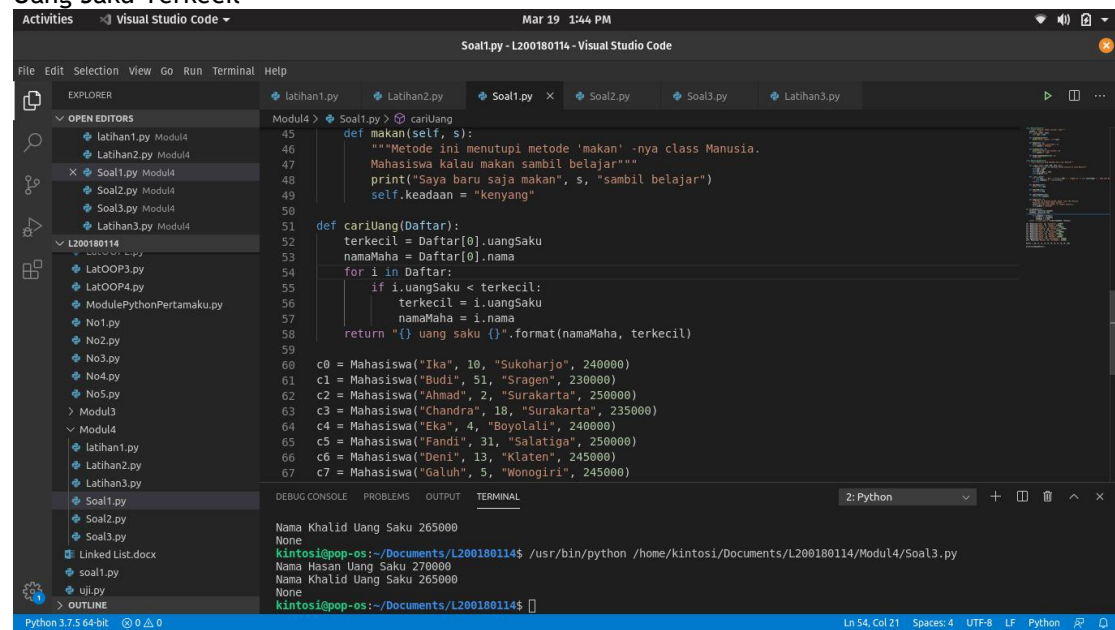
```
def cariTerkecil(kumpulan):
    n = len(kumpulan)
    terkecil = kumpulan[0]
    for i in range(1, n):
        if kumpulan[i] < terkecil:
            terkecil = kumpulan[i]
    return terkecil

a = [12, 34, 5, 2, 4, 54, 3]
print(cariTerkecil(a))
```

Terminal output:

```
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$
```

Uang Saku Terkecil



Visual Studio Code interface showing the implementation of a function to find the minimum pocket money among a list of students.

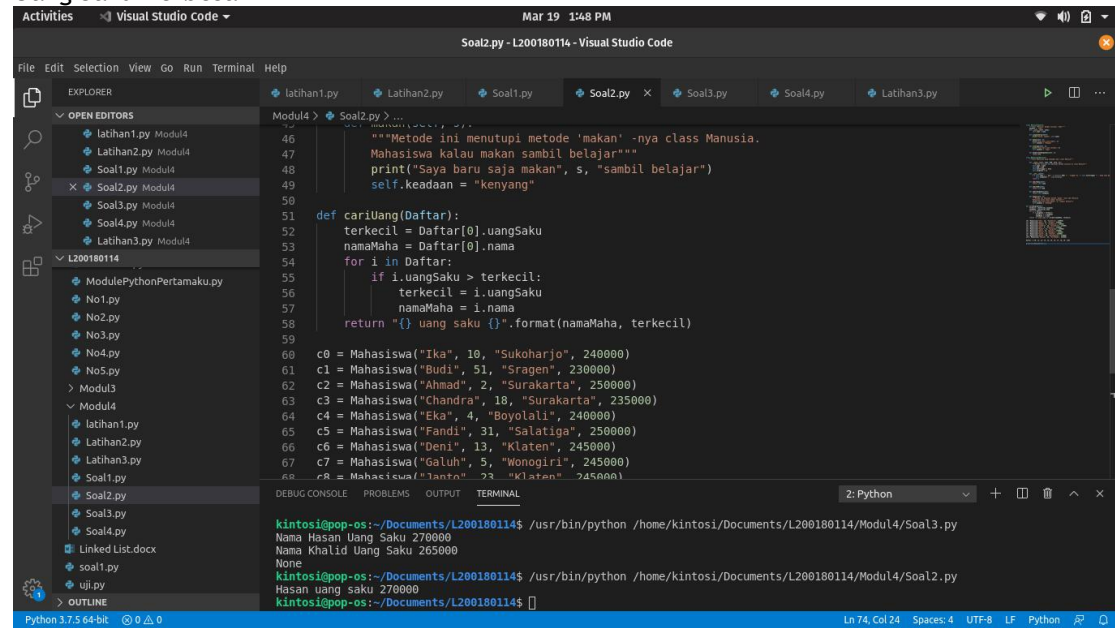
```
def cariUang(Daftar):
    terkecil = Daftar[0].uangSaku
    namaMaha = Daftar[0].nama
    for i in Daftar:
        if i.uangSaku < terkecil:
            terkecil = i.uangSaku
            namaMaha = i.nama
    return "{} uang saku {}".format(namaMaha, terkecil)

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)
```

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 Terbesar



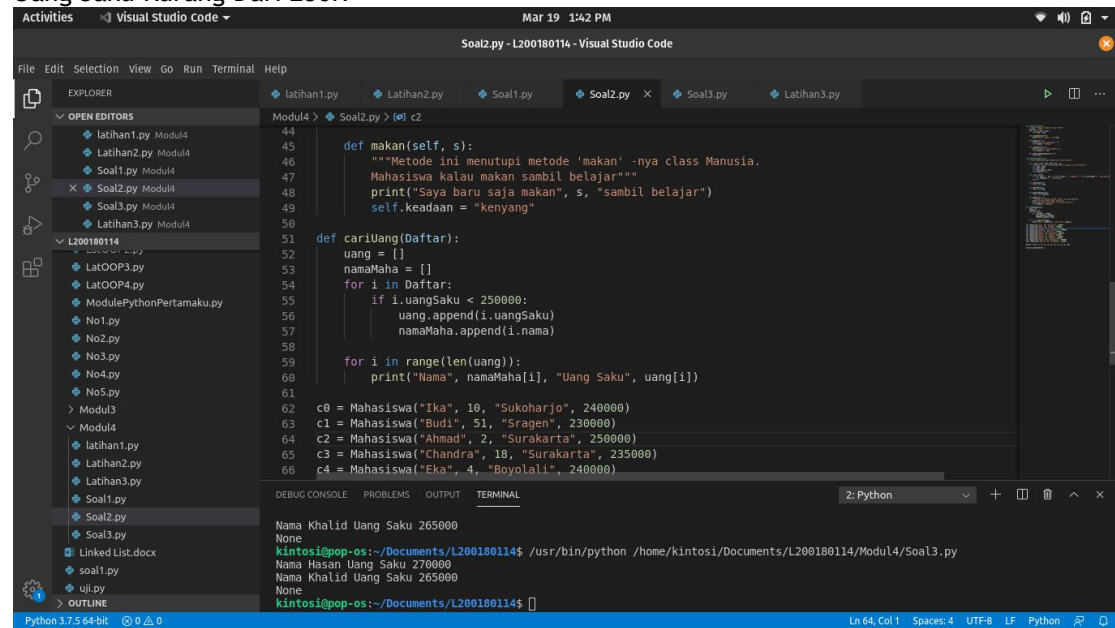
```
def makan(self, s):
    """Metode ini menutupi metode 'makan' -nya class Manusia.
    Mahasiswa kalau makan sambil belajar"""
    print("Saya baru saja makan", s, "sambil belajar")
    self.keadaan = "kenyang"

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)

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("Lanta", 22, "Klaten", 245000)

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 $
```

Uang Saku Kurang Dari 250K



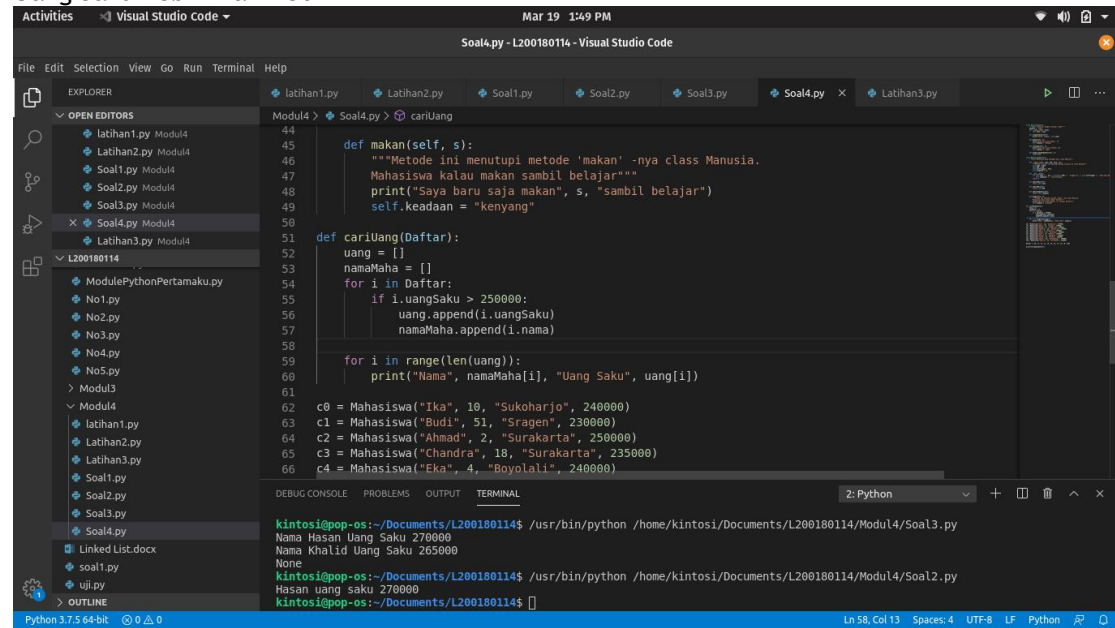
```
def makan(self, s):
    """Metode ini menutupi metode 'makan' -nya class Manusia.
    Mahasiswa kalau makan sambil belajar"""
    print("Saya baru saja makan", s, "sambil belajar")
    self.keadaan = "kenyang"

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, "Boyolali", 240000)

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

Uang Saku Lebih Dari 250K



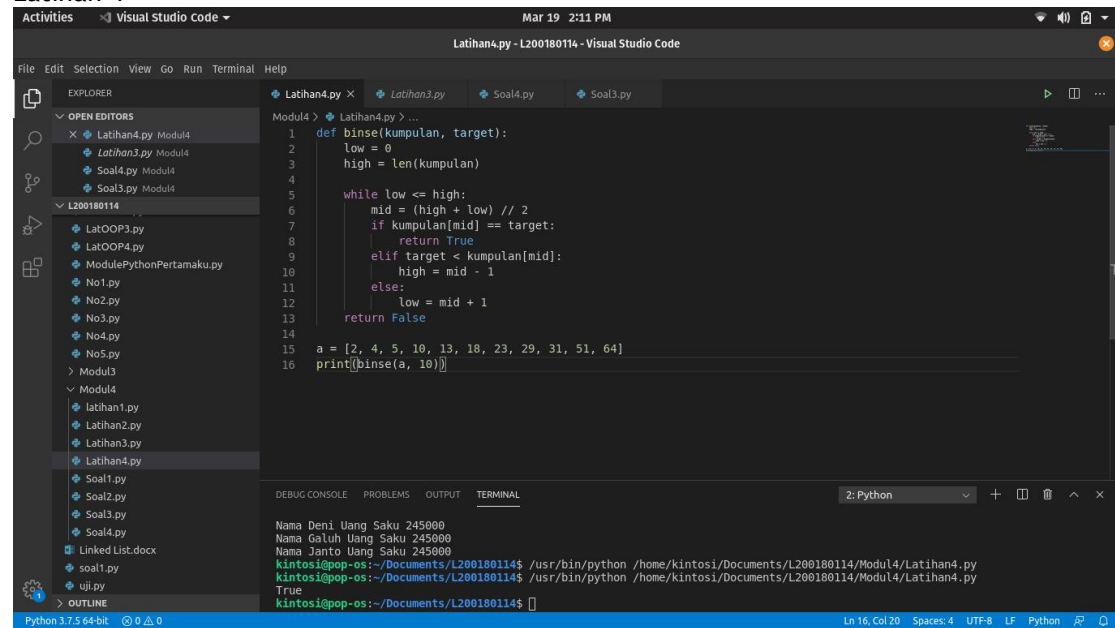
```
44
45 def makan(self, s):
46     """Metode ini menutupi metode 'makan' -nya class Manusia.
47     Mahasiswa kalau makan sambil belajar"""
48     print("Saya baru saja makan", s, "sambil belajar")
49     self.keadaan = "kenyang"
50
51 def cariUang(Daftar):
52     uang = []
53     namaMaha = []
54     for i in Daftar:
55         if i.uangSaku > 250000:
56             uang.append(i.uangSaku)
57             namaMaha.append(i.nama)
58
59     for i in range(len(uang)):
60         print("Nama", namaMaha[i], "Uang Saku", uang[i])
61
62 c0 = Mahasiswa("Ika", 10, "Sukoharjo", 240000)
63 c1 = Mahasiswa("Budi", 51, "Sragen", 230000)
64 c2 = Mahasiswa("Ahmad", 2, "Surakarta", 250000)
65 c3 = Mahasiswa("Chandra", 18, "Surakarta", 235000)
66 c4 = Mahasiswa("Eka", 4, "Boyolali", 240000)
```

DEBUG CONSOLE PROBLEMS OUTPUT TERMINAL

2: Python

```
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$
```

Latihan 4



```
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))
```

DEBUG CONSOLE PROBLEMS OUTPUT TERMINAL

2: Python

```
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
True
kintosi@pop-os:~/Documents/L200180114$
```