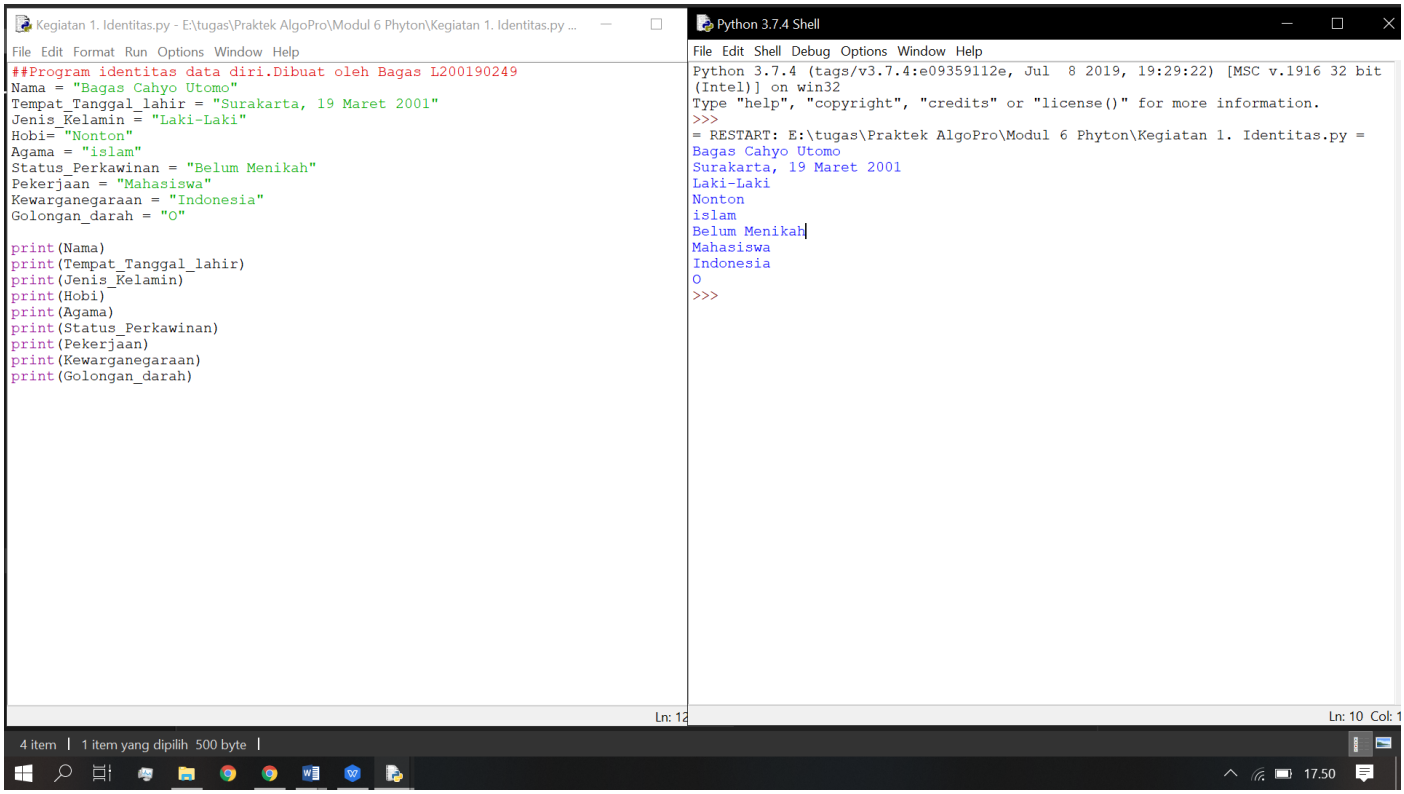
Praktikum Algoritma dan Pemrograman

Modul 6

Kegiatan 1. Identitas

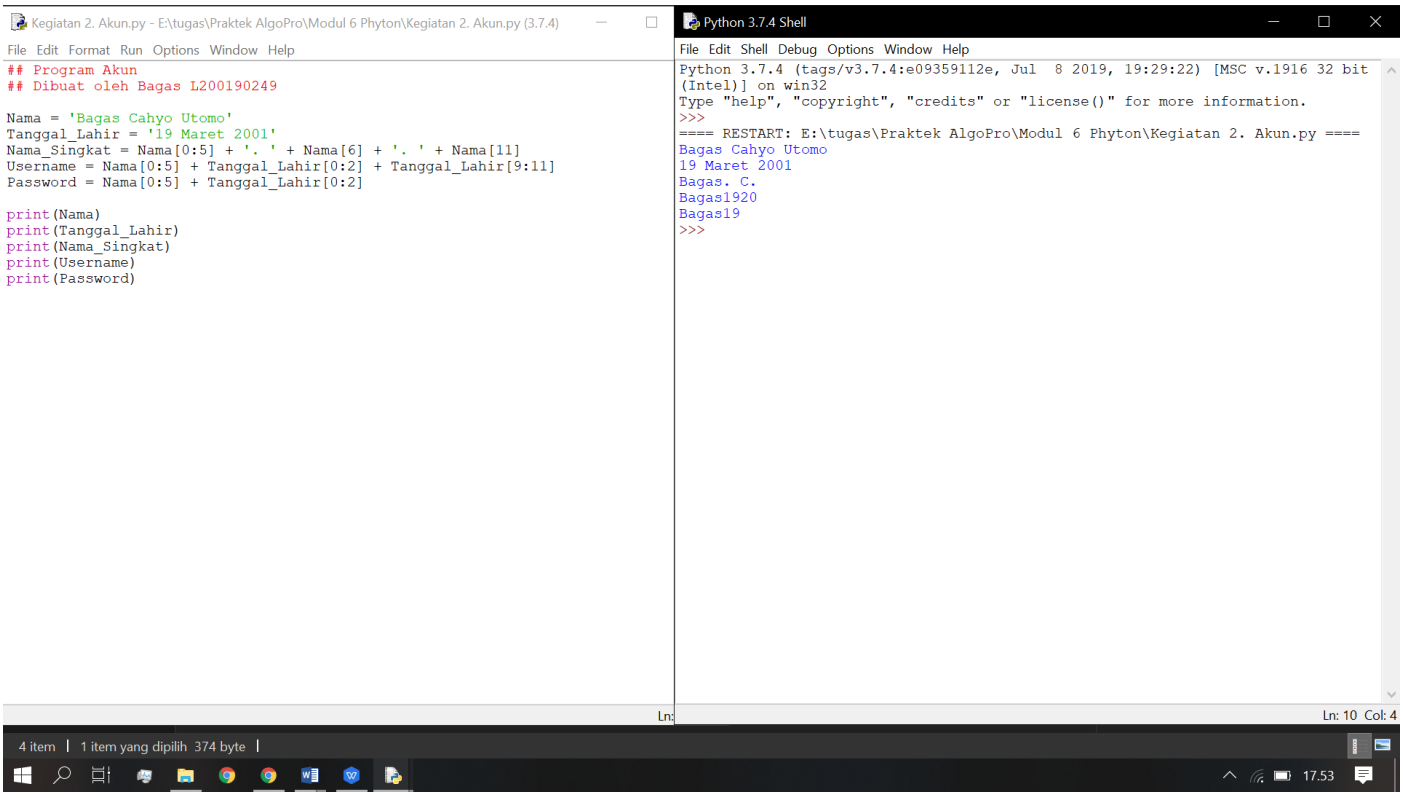


```
##Program identitas data diri.Dibuat oleh Bagas L200190249
Nama = "Bagas Cahyo Utomo"
Tempat_Tanggal_lahir = "Surakarta, 19 Maret 2001"
Jenis_Kelamin = "Laki-Laki"
Hobi= "Nonton"
Agama = "islam"
Status_Perkawinan = "Belum Menikah"
Pekerjaan = "Mahasiswa"
Kewarganegaraan = "Indonesia"
Golongan_darah = "O"

print(Nama)
print(Tempat_Tanggal_lahir)
print(Jenis_Kelamin)
print(Hobi)
print(Agama)
print(Status_Perkawinan)
print(Pekerjaan)
print(Kewarganegaraan)
print(Golongan_darah)
```

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 1. Identitas.py =
Bagas Cahyo Utomo
Surakarta, 19 Maret 2001
Laki-Laki
Nonton
islam
Belum Menikah
Mahasiswa
Indonesia
O
>>>
```

Kegiatan 2. Akun



```
## Program Akun
## Dibuat oleh Bagas L200190249

Nama = 'Bagas Cahyo Utomo'
Tanggal_Lahir = '19 Maret 2001'
Nama_Singkat = Nama[0:5] + '. ' + Nama[6] + '. ' + Nama[11]
Username = Nama[0:5] + Tanggal_Lahir[0:2] + Tanggal_Lahir[9:11]
Password = Nama[0:5] + Tanggal_Lahir[0:2]

print(Nama)
print(Tanggal_Lahir)
print(Nama_Singkat)
print(Username)
print(Password)
```

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 2. Akun.py ====
Bagas Cahyo Utomo
19 Maret 2001
Bagas. C.
Bagas1920
Bagas19
>>>
```

Kegiatan 3. Operator

Kegiatan 3. Operator.py - E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 3. Operator.py (3.7.4)

File Edit Format Run Options Window Help

```
>>> Nama = "Bagas Cahyo Utomo"
>>> NIM = "L200190249"
>>> X = "1" + NIM[7:]
>>> a = int(X)
>>> b = len(Nama)
>>> type(a)
<class 'int'>
>>> #Because the "X" data had changed to integer data type
>>> type(b)
<class 'int'>
>>> #Because the "Nama" data has a "len" instruction
>>> a / b
69,38888888888889
>>> #Because the result of 1249 divided by 18 is 69,38888888888889
>>> a // b
69
>>> #Because the meaning of "//" is division with rounding down
>>> 10 * (a - 999)
2500
>>> #Because the value of "a" minus 999 is 250, after that it will multiplied by 10 and the last value is 2500
>>> b ** 2
324
>>> #Because the result of 18 square is 324
>>> a % b
7
>>> #Because the remaining result of 1249 divided by 18 is 7
>>> c = 12.5
>>> type(c)
<class 'float'>
>>> #Because the value of "c" is numbers decimal
>>> a / c
99.92
>>> #Because the result of 1249 divided by 12.5 is 99.92
>>> a // c
100
>>> #Because the meaning of "//" is division with rounding down
>>> a % c
11.5
>>> #Because the remaining result of 1249 divided by 12.5 is 11.5
>>> c > b
False
>>> #Because the value of "c" is smaller than the value of "b", so the decision is "False"
>>> type(c > b)
```

Ln: 1 Col: 0

Kegiatan 3. Operator.py - E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 3. Operator.py (3.7.4)

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```
<class 'int'>
>>> #Because the "Nama" data has a "len" instruction
>>> a / b
69,38888888888889
>>> #Because the result of 1249 divided by 18 is 69,38888888888889
>>> a // b
69
>>> #Because the meaning of "//" is division with rounding down
>>> 10 * (a - 999)
2500
>>> #Because the value of "a" minus 999 is 250, after that it will multiplied by 10 and the last value is 2500
>>> b ** 2
324
>>> #Because the result of 18 square is 324
>>> a % b
7
>>> #Because the remaining result of 1249 divided by 18 is 7
>>> c = 12.5
>>> type(c)
<class 'float'>
>>> #Because the value of "c" is numbers decimal
>>> a / c
99.92
>>> #Because the result of 1249 divided by 12.5 is 99.92
>>> a // c
100
>>> #Because the meaning of "//" is division with rounding down
>>> a % c
11.5
>>> #Because the remaining result of 1249 divided by 12.5 is 11.5
>>> c > b
False
>>> #Because the value of "c" is smaller than the value of "b", so the decision is "False"
>>> type(c > b)
<class 'bool'>
>>> #Because the comparison between c and b, then to make the decision about "True" or "False"
>>> a > b and b > c
True
>>> #Because the value of "a" is bigger than the value of "b" and the value of "b" is bigger than the value of "c", so the decision is "True"
>>> a > 1100 or b < 10
True
>>> #Because the the value use "or", so the decision is "True"
```

Ln: 2 Col: 0

Kegiatan 4. Tipe Data

Kegiatan 4. Tipe Data.py - E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 4. Tipe Data.py (3.7.4)

File Edit Format Run Options Window Help

```
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul  8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> >>> Nama = "Bagas Cahyo Utomo"
>>> NIM = 249
>>> Tinggi = 1.65
>>> Berat = 50
>>> TahunLahir = 2001
>>> Aku = (TahunLahir, Berat, Tinggi, NIM, Nama)
>>> Data = [TahunLahir, Berat, Tinggi, NIM, Nama]
>>> type(Aku)
<class 'tuple'>
>>> # Because the "Aku" data is written in parenthese
>>> Aku[0]
2001
>>> # Because the first object in "Aku" data is "TahunLahir", The value of "TahunLahir" is 2000
>>> a = NIM % 4; Aku[a]
50
>>> # Because the remaining result of 197 is 1, so the result of Aku[1] is 50
>>> type(Aku[a])
<class 'int'>
>>> # Because the value of "Berat" is 1, 1 is an integer data type
>>> Aku[a:4]
(50, 1.65, 249)
>>> # Because the value of "a" is 1, so the first of 3 object in the "Aku" data is "Berat" then for the next is "Tinggi" and "NIM"
>>> type(Aku[4])
<class 'str'>
>>> # Because the "Nama" data is contain the characters
>>> Aku[0] = 'ok'
Traceback (most recent call last):
  File "<pyshell#19>", line 1, in <module>
    Aku[0] = 'ok'
TypeError: 'tuple' object does not support item assignment
>>> # Because the "Aku" data is tuple and the elements tuple can not be changed
>>> type(Data)
<class 'list'>
>>> # Because the "Data" data is use elbow brackets.
>>> type(Data[4])
<class 'str'>
>>> # Because the "Nama" data is contain the characters
>>> Data[4][5]
'a'
>>> # Because the value of Data[4] is "Bagas Cahyo Utomo", so the long [5] is contain "a"
>>> Data[4][a:6]
```

Ln: 1 Col: 0

Kegiatan 4. Tipe Data.py - E:\tugas\Praktek AlgoPro\Modul 6 Phyton\Kegiatan 4. Tipe Data.py (3.7.4)

File Edit Format Run Options Window Help

```
>>> Aku[0]
2001
>>> # Because the first object in "Aku" data is "TahunLahir", The value of "TahunLahir" is 2000
>>> a = NIM % 4; Aku[a]
50
>>> # Because the remaining result of 197 is 1, so the result of Aku[1] is 50
>>> type(Aku[a])
<class 'int'>
>>> # Because the value of "Berat" is 1, 1 is an integer data type
>>> Aku[a:4]
(50, 1.65, 249)
>>> # Because the value of "a" is 1, so the first of 3 object in the "Aku" data is "Berat" then for the next is "Tinggi" and "NIM"
>>> type(Aku[4])
<class 'str'>
>>> # Because the "Nama" data is contain the characters
>>> Aku[0] = 'ok'
Traceback (most recent call last):
  File "<pyshell#19>", line 1, in <module>
    Aku[0] = 'ok'
TypeError: 'tuple' object does not support item assignment
>>> # Because the "Aku" data is tuple and the elements tuple can not be changed
>>> type(Data)
<class 'list'>
>>> # Because the "Data" data is use elbow brackets.
>>> type(Data[4])
<class 'str'>
>>> # Because the "Nama" data is contain the characters
>>> Data[4][5]
'a'
>>> # Because the value of Data[4] is "Bagas Cahyo Utomo", so the long [5] is contain "a"
>>> Data[4][a:6]
'ndira'
>>> # Because the value of Data[4] is "Bagas Cahyo Utomo", so the long [a:6] is contain "ndira"
>>> Data[0] = 'ok'; Data
['ok', 50, 1.65, 249, 'Bagas Cahyo Utomo']
>>> # Because the "Data[0]" data had changed to "ok", so the result value of "Data" data is 'ok', 50, 1.65, 197, and 'Indira Febriyanti'
>>> Data[-a]
'Bagas Cahyo Utomo'
>>> # Because the value of "-a" is -1, then the value "-1" in the "Data" data is "Nama" and the value of "Nama" data is "Indira Febriyanti"
>>> range(a)
range(0, 1)
>>> # Because the range of 1 is (0,1)
```

Ln: 1 Col: 0