

# DATA DAN OPERATOR

## MODUL 6

### Kegiatan 1. Identitas

The image shows a Windows desktop environment with two windows open. The top window is a Python IDE titled 'tugasPertama.py - D:/ums/python/tugasPertama.py (3.7.4)'. It contains a Python script for a student's identity. The bottom window is a 'Python 3.7.4 Shell' showing the execution of the script, which prints the student's details and then restarts the script to show the same details again.

```
File Edit Format Run Options Window Help
##Program Identitas Diri/ Dubuat oleh Mutiara Aisya Harfi Putri L200190240
Nama="Mutiara Aisya Harfi Putri"
NIM="L200190240"
Prodi="Informatika"
Status="Mahasiswa"
Tanggal_Lahir="5 Januari 2001"
Tempat_Lahir="Pati"

print(Nama)
print(NIM)
print(Prodi)
print(Status)
print(Tanggal_Lahir)
print(Tempat_Lahir)

##Program Akun
##Dibuat oleh Mutiara Aisya Harfi Putri
Nama="Mutiara Aisya Harfi Putri"
TL="5 Januari 2001"
print("Nama=", Nama)
print("Taggal Lahir=", TL)
print("Nama Singkat=", Nama[0:7]+ Nama[8]+ "." + Nama[14]+ "." + Nama[20]+ ".")
print("Username=", Nama[0]+ TL[0]+ TL[10:14])
print("Password=", Nama[0:3]+ TL[0:1]+ TL[10:14])
```

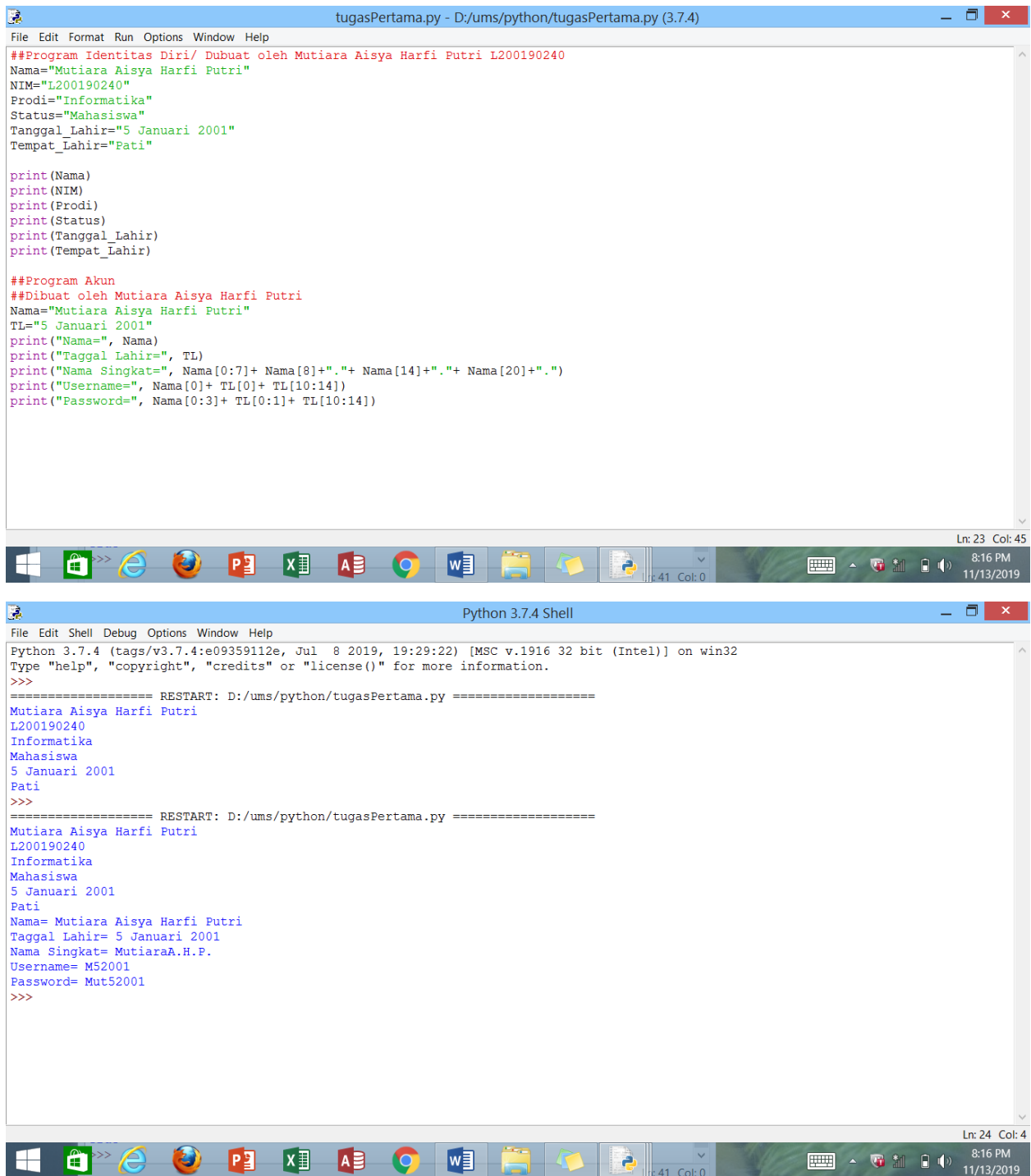
Ln: 23 Col: 45

Python 3.7.4 Shell

```
File Edit Shell Debug 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.
>>>
===== RESTART: D:/ums/python/tugasPertama.py =====
Mutiara Aisya Harfi Putri
L200190240
Informatika
Mahasiswa
5 Januari 2001
Pati
>>>
===== RESTART: D:/ums/python/tugasPertama.py =====
Mutiara Aisya Harfi Putri
L200190240
Informatika
Mahasiswa
5 Januari 2001
Pati
Nama= Mutiara Aisya Harfi Putri
Taggal Lahir= 5 Januari 2001
Nama Singkat= MutiaraA.H.P.
Username= M52001
Password= Mut52001
>>>
```

Ln: 24 Col: 4

## Kegiatan 2. Akun



The image shows a Windows desktop environment with two windows open. The top window is a Python IDE titled "tugasPertama.py - D:/ums/python/tugasPertama.py (3.7.4)". It contains a Python script with two sections: "Program Identitas Diri" and "Program Akun". The script defines variables for a person's name, NIM, faculty, status, birth date, and birthplace, and then prints them. The second section creates an account by splitting the name and birth date into a username and password, and prints them. The bottom window is a "Python 3.7.4 Shell" showing the execution of the script. It displays the output of the first section, followed by a restart command, and then the output of the second section, which shows the generated username and password.

```
File Edit Format Run Options Window Help
##Program Identitas Diri/ Dubuat oleh Mutiara Aisya Harfi Putri L200190240
Nama="Mutiara Aisya Harfi Putri"
NIM="L200190240"
Prodi="Informatika"
Status="Mahasiswa"
Tanggal_Lahir="5 Januari 2001"
Tempat_Lahir="Pati"

print (Nama)
print (NIM)
print (Prodi)
print (Status)
print (Tanggal_Lahir)
print (Tempat_Lahir)

##Program Akun
##Dibuat oleh Mutiara Aisya Harfi Putri
Nama="Mutiara Aisya Harfi Putri"
TL="5 Januari 2001"
print("Nama=", Nama)
print("Taggal Lahir=", TL)
print("Nama Singkat=", Nama[0:7]+ Nama[8]+ "." + Nama[14]+ "." + Nama[20]+ ".")
print("Username=", Nama[0]+ TL[0]+ TL[10:14])
print("Password=", Nama[0:3]+ TL[0:1]+ TL[10:14])

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```

```
File Edit Shell Debug 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.
>>>
===== RESTART: D:/ums/python/tugasPertama.py =====
Mutiara Aisya Harfi Putri
L200190240
Informatika
Mahasiswa
5 Januari 2001
Pati
>>>
===== RESTART: D:/ums/python/tugasPertama.py =====
Mutiara Aisya Harfi Putri
L200190240
Informatika
Mahasiswa
5 Januari 2001
Pati
Nama= Mutiara Aisya Harfi Putri
Taggal Lahir= 5 Januari 2001
Nama Singkat= MutiaraA.H.P.
Username= M52001
Password= Mut52001
>>>

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```

## Kegiatan 3. Operator

```
Python 3.7.4 Shell
File Edit Shell Debug 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="MutiarA Aisya Harfi Putri"
>>> NIM="L200190240"
>>> X='1'+NIM[7:]
>>> a=int(X)menjadikan x type integer
SyntaxError: invalid syntax
>>> a=int(X) #konversi string ke integer
>>> b=len(Nama)
>>> type(a) #output type a
<class 'int'>
>>> type(b)
<class 'int'>
>>> a/b # / merupakan bagi
49.6
>>> a//b # // merupakan bagi kemudian dijadikan bil.bulat
49
>>> 10*(a-999)
2410
>>> b**2
625
>>> a%b # % merupakan hasil sisa bagi
15
>>> c=12.5
>>> type(c)
<class 'float'>
>>> a/c
99.2
>>> a//c
99.0
>>> a%c
2.5
```

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```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
>>> type(a) #output type a
<class 'int'>
>>> type(b)
<class 'int'>
>>> a/b # / merupakan bagi
49.6
>>> a//b # // merupakan bagi kemudian dijadikan bil.bulat
49
>>> 10*(a-999)
2410
>>> b**2
625
>>> a%b # % merupakan hasil sisa bagi
15
>>> c=12.5
>>> type(c)
<class 'float'>
>>> a/c
99.2
>>> a//c
99.0
>>> a%c
2.5
>>> c>b
False
>>> type(c>b)
<class 'bool'>
>>> a>b and b>c
True
>>> a>1100 or b<10
True
>>>
```

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## Kegiatan 4. Tipe Data

```
Python 3.7.4 Shell
File Edit Shell Debug 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="Mutiara Aisya Harfi Putri"
>>> NIM=240
>>> Tinggi=1.58
>>> Berat=49
>>> TahunLahir=2001
>>> Aku(TahunLahir,Berat,Tinggi,NIM>Nama)
Traceback (most recent call last):
  File "<pyshell#5>", line 1, in <module>
    Aku(TahunLahir,Berat,Tinggi,NIM>Nama)
NameError: name 'Aku' is not defined
>>> Aku=(TahunLahir,Berat,Tinggi,NIM>Nama)
>>> Data=[TahunLahir,Berat,Tinggi,NIM>Nama]
Traceback (most recent call last):
  File "<pyshell#7>", line 1, in <module>
    Data=[TahunLahir,Berat,Tinggi,NIM>Nama]
NameError: name 'Tinggi' is not defined
>>> Data=[TahunLahir,Berat,Tinggi,NIM>Nama]
>>> type(Aku)
<class 'tuple'>
>>> Aku[0]
2001
>>> a=NIM%4;Aku[a]
2001
>>> type(Aku[a])
<class 'int'>
>>> Aku[a:4]
(2001, 49, 1.58, 240)
>>> type(Aku[4])
<class 'str'>
>>> Aku[0]
```

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```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
>>> Aku[a:4]
(2001, 49, 1.58, 240)
>>> type(Aku[4])
<class 'str'>
>>> Aku[0]
2001
>>> Aku[0]='ok'
Traceback (most recent call last):
  File "<pyshell#16>", line 1, in <module>
    Aku[0]='ok'
TypeError: 'tuple' object does not support item assignment
>>> type(Data)
<class 'list'>
>>> type(Data[4])
<class 'str'>
>>> Data[4][5]
'r'
>>> Data[4][a:6]
'Mutiar'
>>> Data[0]='ok';Daata
Traceback (most recent call last):
  File "<pyshell#21>", line 1, in <module>
    Data[0]='ok';Daata
NameError: name 'Daata' is not defined
>>> Data[0]='ok'; Data
['ok', 49, 1.58, 240, 'Mutiara Aisya Harfi Putri']
>>> Data[-a]
'ok'
>>> range(a)
range(0, 0)
>>>
```

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