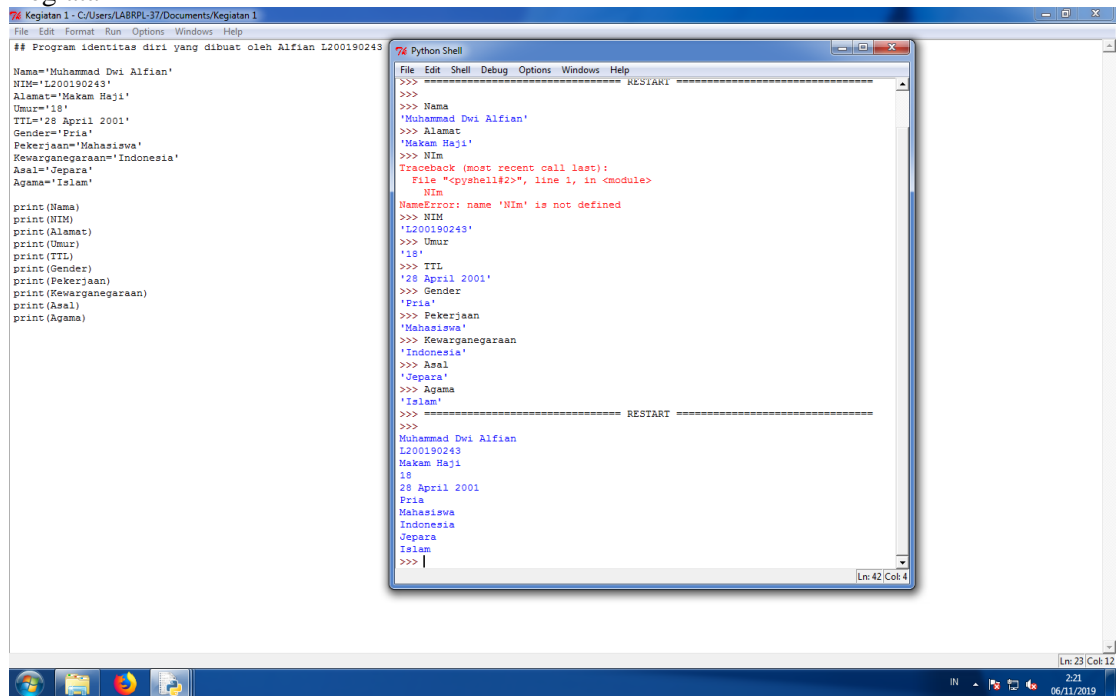


PRAKTIKUM ALGORITMA DAN PEMROGRAMAN MODUL 3

Kegiatan 1



The screenshot shows a Windows desktop with two windows. The main window is a text editor titled 'Kegiatan1 - C:/Users/ABRPL-37/Documents/Kegiatan1'. It contains a Python script that defines a dictionary of personal data and prints its keys and values. The script is as follows:

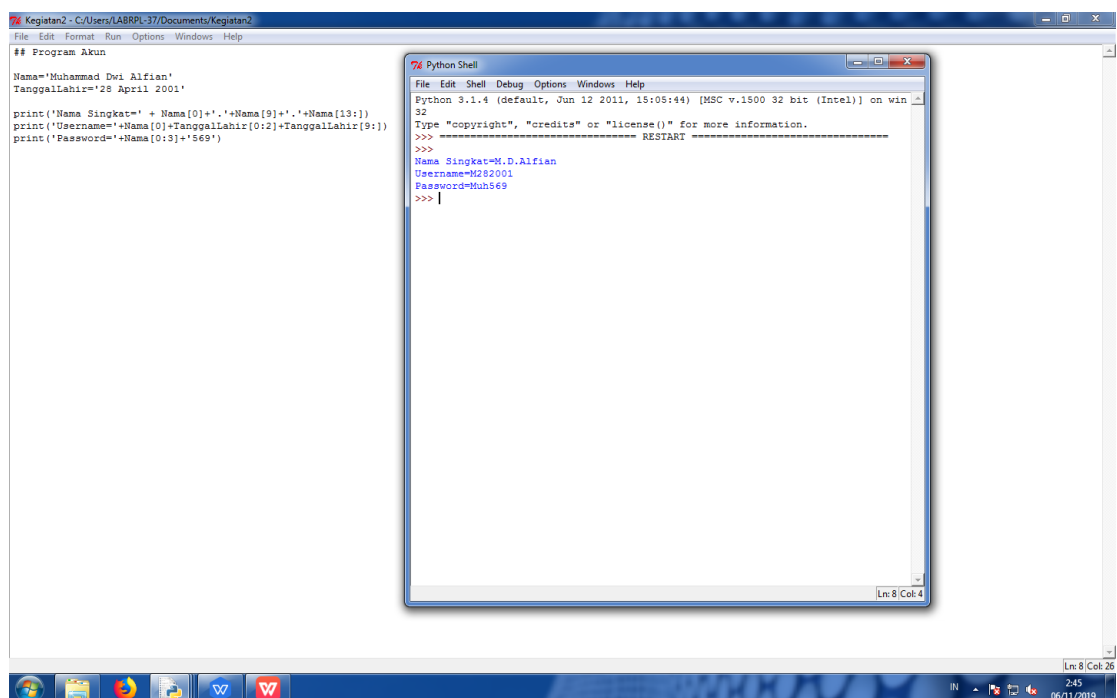
```
## Program identitas diri yang dibuat oleh Alfian L200190243
Nama='Muhammad Dwi Alfian'
NIM='L200190243'
Alamat='Makam Haji'
Umur='18'
TTL='28 April 2001'
Gender='Pria'
Pekerjaan='Mahasiswa'
Kewarganegaraan='Indonesia'
Asal='Jepara'
Agama='Islam'

print(Nama)
print(NIM)
print(Alamat)
print(Umur)
print(TTL)
print(Gender)
print(Pekerjaan)
print(Kewarganegaraan)
print(Asal)
print(Agama)
```

The second window is a 'Python Shell' titled 'Python Shell'. It shows the execution of the script. The output is as follows:

```
>>> ===== RESTART =====
>>>
>>> Nama
'Muhammad Dwi Alfian'
>>> Alamat
'Makam Haji'
>>> NIM
Traceback (most recent call last):
  File "<pyshell#2>", line 1, in <module>
    NIM
NameError: name 'NIM' is not defined
>>> NIM
'L200190243'
>>> Umur
'18'
>>> TTL
'28 April 2001'
>>> Gender
'Pria'
>>> Pekerjaan
'Mahasiswa'
>>> Kewarganegaraan
'Indonesia'
>>> Asal
'Jepara'
>>> Agama
'Islam'
>>> ===== RESTART =====
>>>
>>>
Muhammad Dwi Alfian
L200190243
Makam Haji
18
28 April 2001
Pria
Mahasiswa
Indonesia
Jepara
Islam
>>> |
```

Kegiatan 2



The screenshot shows a Windows desktop with two windows. The main window is a text editor titled 'Kegiatan2 - C:/Users/ABRPL-37/Documents/Kegiatan2'. It contains a Python script that defines a dictionary of personal data and prints its keys and values. The script is as follows:

```
## Program Akun
Nama='Muhammad Dwi Alfian'
TanggalLahir='28 April 2001'

print('Nama Singkat=' + Nama[0]+'.'+Nama[9]+'.'+Nama[13:])
print('Username='+Nama[0]+TanggalLahir[0:2]+TanggalLahir[9:])
print('Password='+Nama[0:3]+'569')
```

The second window is a 'Python Shell' titled 'Python Shell'. It shows the execution of the script. The output is as follows:

```
Python 3.1.4 (default, Jun 12 2011, 15:05:44) [MSC v.1500 32 bit (Intel)] on win
32
Type "copyright", "credits" or "license()" for more information.
>>> ===== RESTART =====
>>>
Nama Singkat=M.D.Alfian
Username=M282001
Password=Muh569
>>> |
```

Kegiatan 3

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Name='Muhammad Dwi Alfian'
>>> NIM='1200190243'
>>> x='1'+NIM[7:]
>>> a=int(x)
>>> b=len>Nama)
>>> type(a)
<class 'int'>
>>> # menampilkan tipe data dari variabel a menampilkan tipe data dari variabel a
>>> type(b)
<class 'int'>
>>> #menampilkan tipe data variabel b
>>> a/b
65.42195263157895
>>> # menampilkan hasil operasi pembagian variabel a dan b
>>> a//b
65
>>> #menampilkan pembulatan hasil bagi variabel a dan b
>>> 10*(a-999)
2440
>>> # menampilkan hasil operasi hitung
>>> b**2
361
>>> #menampilkan hasil pemangkatan variabel b
>>> a*b
8
>>> # menampilkan modulus atau sisa bagi
>>> c=12.5
>>> type(c)
<class 'float'>
>>> # menampilkan tipe data c
>>> a/c
65.44
>>> # menampilkan hasil bagi a dan c
>>> a//c
99.0
>>> #menampilkan pembulatan hasil bagi a dan c
>>> a/c
5.5
>>> #menampilkan modulus atau sisa bagi
>>> c>b
False
>>> type(c>b)
<class 'bool'>
>>> # menampilkan tipe data
>>> a>b and b>c
True
>>> # membuktikan boolean true or false
>>> a>1100 or b<10
```

Kegiatan 4

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
>>> Nama='Muhammad Dwi Alfian'
>>> NIM=243
>>> Tinggi=1.71
>>> Berat=90
>>> TahunLahir=2001
>>> Aku=(TahunLahir,Berat,Tinggi,NIM>Nama)
>>> Data=[TahunLahir,Berat,Tinggi,NIM>Nama]
>>> type(Aku)
<class 'tuple'>
>>> #Menampilkan tipe data
>>> Aku[0]
2001
>>> #Menampilkan indeks ke 0 variabel 1
>>> a=NIM%4:Aku[a]
243
>>> a = NIM % 4 : Aku[a]
243
>>> #Menampilkan NIM modulus 4
>>> type(Aku[a])
<class 'int'>
>>> #Menampilkan tipe data
>>> Aku[a:4]
(243,)
>>> #Menampilkan indeks dari variabel Aku
>>> type(Aku[4])
<class 'str'>
>>> #Menampilkan tipe data
>>> Aku[0]='ok'
Traceback (most recent call last):
  File "<pyshell#20>", line 1, in <module>
    Aku[0]='ok'
TypeError: 'tuple' object does not support item assignment
>>> #Error karena tipe data Aku adalah tuple
>>> type(Data)
<class 'list'>
>>> #Menampilkan tipe data
>>> type(Data[4])
<class 'str'>
>>> #Menampilkan tipe data indeks ke 4
>>> Data[4][5]
'm'
>>> #Menampilkan indeks Variabel data
>>> Data[4][a:6]
'amn'
>>> #Menampilkan indeks variabel data
>>> Data[0]='ok':Data
['ok', 90, 1.71, 243, 'Muhammad Dwi Alfian']
>>> #Menampilkan content semua indeks
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
>>> type(Aku)
<class 'tuple'>
>>> #Menampilkan tipe data
>>> Aku[0]
2001
>>> #Menampilkan indeks ke 0 variabel 1
>>> a=NIM%4:Aku[a]
243
>>> a = NIM % 4 : Aku[a]
243
>>> #Menampilkan NIM modulus 4
>>> type(Aku[a])
<class 'int'>
>>> #Menampilkan tipe data
>>> Aku[a:4]
(243,)
>>> #Menampilkan indeks dari variabel Aku
>>> type(Aku[4])
<class 'str'>
>>> #Menampilkan tipe data
>>> Aku[0]='ok'
Traceback (most recent call last):
  File "<pyshell#20>", line 1, in <module>
    Aku[0]='ok'
TypeError: 'tuple' object does not support item assignment
>>> #Error karena tipe data Aku adalah tuple
>>> type(Data)
<class 'list'>
>>> #Menampilkan tipe data
>>> type(Data[4])
<class 'str'>
>>> #Menampilkan tipe data indeks ke 4
>>> Data[4][5]
'm'
>>> #Menampilkan indeks Variabel data
>>> Data[4][a:6]
'amn'
>>> #Menampilkan indeks variabel data
>>> Data[0]='ok':Data
['ok', 90, 1.71, 243, 'Muhammad Dwi Alfian']
>>> #Menampilkan content semua indeks
>>> Data[a]
1.71
>>> #Menampilkan indeks data
>>> range(a)
range(0, 3)
>>> #Menampilkan range
>>>
```