

Ujian Akhir Semester (UAS)
Nathanael Christian Situmeang
190402142
Pemrograman Komputer D

1. Mixing variable, konstanta, string, list, dict, def, opsional object dan beberapa trik lainnya.

nathanaelcs.py

```
# UAS PEMROGRAMAN KOMPUTER D
```

```
# PROGRAM GAME
```

```
import random
```

```
z = random.randrange(1, 6)
```

```
x = random.randrange(1, 6)
```

```
print("Selamat Datang di Game Random Fighter
```

Karakter Hero :

1. Penyerang
2. Bertahan")

```
opsi = int(input('Pilih Kategori Hero (Masukan Angka) :'))
```

```
if opsi == 1:
```

```
    print(""
```

```
Hero :")
```

```
    hero = ['1. Martis', '2. Alucard']
```

```
    a, b = hero
```

```
    print(a)
```

```
    print(b)
```

```
    pilihan = int(input('Pilih Hero anda (Masukan Angka) :'))
```

```
    if pilihan == 1:
```

```
        print(""
```

```
Pertarungan Dimulai!!!")
```

```
class fighter:
```

```
def __init__(self, nama, power):  
    self.nama = nama  
    self.power = power
```

```
def tampilkan_profil(self):  
    print(" Nama : ", self.nama)  
    print(" Power : ", self.power)
```

```
fighter1 = fighter("Martis", z)  
fighter2 = fighter("Alucard", x)
```

```
print('1. Hero')  
fighter1.tampilkan_profil()  
print('2. Hero')  
fighter2.tampilkan_profil()
```

```
player1 = {'name': 'Martis', 'power': z + 1}  
player2 = {'name': 'Alucard', 'power': x}  
def attack(attacker, defender):  
    if (attacker['power'] > defender['power']):  
        print('WIN')  
    else:  
        print('LOSE')  
attack(player1, player2)
```

```
elif pilihan == 2:  
    print("  
Pertarungan Dimulai!!!")
```

```
class fighter:  
  
    def __init__(self, nama, power):  
        self.nama = nama  
        self.power = power
```

```

    def tampilkan_profil(self):
        print(" Nama : ", self.nama)
        print(" Power : ", self.power)

fighter1 = fighter("Martis", z)
fighter2 = fighter("Alucard", x)

print('1. Hero')
fighter1.tampilkan_profil()
print('2. Hero')
fighter2.tampilkan_profil()

player1 = {'name': 'Martis', 'power': z - 1}
player2 = {'name': 'Alucard', 'power': x}
def attack(attacker, defender):
    if (attacker['power'] > defender['power']):
        print('WIN')
    else:
        print('LOSE')
    attack(player2, player1)

else:
    print('unknown')

elif opsi == 2:
    print("""
Hero :""")
    hero = ['1. Martis', '2. Alucard']
    a, b = hero
    print(a)
    print(b)
    pilihan = int(input('Pilih Hero anda (Masukan Angka) :'))

if pilihan == 1:

```

```
print("
Pertarungan Dimulai!!!")
```

```
class fighter:
```

```
    def __init__(self, nama, defend):
        self.nama = nama
        self.defend = defend
```

```
    def tampilkan_profil(self):
        print("  Nama : ", self.nama)
        print("  Defend : ", self.defend)
```

```
fighter1 = fighter("Martis", z)
fighter2 = fighter("Alucard", x)
```

```
print('1. Hero')
fighter1.tampilkan_profil()
print('2. Hero')
fighter2.tampilkan_profil()
```

```
player1 = {'name': 'Martis', 'defend': z}
player2 = {'name': 'Alucard', 'defend': x - 1}
def defend(attacker, defender):
    if (attacker['defend'] < defender['defend']):
        print('WIN')
    else:
        print('LOSE')
defend(player2, player1)
```

```
elif pilihan == 2:
    print("
Pertarungan Dimulai!!!")
```

```

class fighter:

    def __init__(self, nama, defend):
        self.nama = nama
        self.defend = defend

    def tampilkan_profil(self):
        print(" Nama : ", self.nama)
        print(" Defend : ", self.defend)

fighter1 = fighter("Martis", z)
fighter2 = fighter("Alucard", x)

print('1. Hero')
fighter1.tampilkan_profil()
print('2. Hero')
fighter2.tampilkan_profil()

player1 = {'name': 'Martis', 'defend': z}
player2 = {'name': 'Alucard', 'defend': x + 1}
def defend(attacker, defender):
    if (attacker['defend'] < defender['defend']):
        print('WIN')
    else:
        print('LOSE')
defend(player1, player2)

else:
    print('unknown')

else:
    print('unknown')

```

```
# UAS PEMROGRAMAN KOMPUTER D
# PROGRAM GAME

import random
z = random.randrange(1, 6)
x = random.randrange(1, 6)

print('Selamat Datang di Game Random Fighter')

Karakter Hero :
1. Penyerang
2. Bertahan'''

opsi = int(input('Pilih Kategori Hero (Masukan Angka) :'))

if opsi == 1:
    print('')
    Hero :'''
    hero = ['1. Martis', '2. Alucard']
    a, b = hero
    print(a)
    print(b)
    pilihan = int(input('Pilih Hero anda (Masukan Angka) :'))

    if pilihan == 1:
        print('')
    elif opsi == 2 > elif pilihan == 2 > defend() > else
```

```
print('')
Pertarungan Dimulai!!!!'''

class fighter:

    def __init__(self, nama, power):
        self.nama = nama
        self.power = power

    def tampilkan_profil(self):
        print(" Nama : ", self.nama)
        print(" Power : ", self.power)

fighter1 = fighter("Martis", z)
fighter2 = fighter("Alucard", x)

print('1. Hero')
fighter1.tampilkan_profil()
print('2. Hero')
fighter2.tampilkan_profil()

player1 = {'name': 'Martis', 'power': z + 1}
player2 = {'name': 'Alucard', 'power': x}

def attack(attaacker, defender):
    if (attaacker['power'] > defender['power']):
        print('WIN')
    else:
        print('')

if opsi == 1 > # pilihan == 1 > attack() > # (attaacker['power'] > defende...
```

```
pythonProject - nathanaelcs.py
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject nathanaelcs.py
Project
  CA\Users\acer\PycharmP
  > idea
  > venv
    christian.py
    client.py
    main.py
    main1.py
    nael.py
    nael1.py
    natha.py
    nathal.py
    nathanaelcs.py
    server.py
    situmeang.py
    situmeang1.py
    Soal Pemro.py
Structure
Favorites
nathanaelcs.py
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
    else:
        print('LOSE')
        attack(player1, player2)
    elif pilihan == 2:
        print('')
        Pertarungan Dimulai!!!!
    class fighter:
        def __init__(self, nama, power):
            self.nama = nama
            self.power = power
        def tampilkan_profil(self):
            print(" Nama : ", self.nama)
            print(" Power : ", self.power)
        fighter1 = fighter("Martis", z)
        fighter2 = fighter("Alucard", x)
        print('1. Hero')
        fighter1.tampilkan_profil()
        print('2. Hero')
        fighter2.tampilkan_profil()
        player1 = {'name': 'Martis', 'power': z - 1}
        if opsi == 1 > elif pilihan == 2
Activate Windows
Go to PC settings to activate Windows.
Event Log
78:1 CRLF UTF-8 4 spaces Python 3.8 (pythonProject)
8:59 AM
6/10/2021
```

```
pythonProject - nathanaelcs.py
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject nathanaelcs.py
Project
  CA\Users\acer\PycharmP
  > idea
  > venv
    christian.py
    client.py
    main.py
    main1.py
    nael.py
    nael1.py
    natha.py
    nathal.py
    nathanaelcs.py
    server.py
    situmeang.py
    situmeang1.py
    Soal Pemro.py
Structure
Favorites
nathanaelcs.py
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
    player1 = {'name': 'Martis', 'power': z - 1}
    player2 = {'name': 'Alucard', 'power': x}
    def attack(attacker, defender):
        if (attacker['power'] > defender['power']):
            print('WIN')
        else:
            print('LOSE')
            attack(player2, player1)
    else:
        print('unknown')
    elif opsi == 2:
        print('')
        Hero :''
        hero = ['1. Martis', '2. Alucard']
        a, b = hero
        print(a)
        print(b)
        pilihan = int(input('Pilih Hero anda (Masukan Angka) :'))
        if pilihan == 1:
            print('')
            Pertarungan Dimulai!!!!
        class fighter:
            elif opsi == 2 > if pilihan == 1
Activate Windows
Go to PC settings to activate Windows.
Event Log
103:1 CRLF UTF-8 4 spaces Python 3.8 (pythonProject)
9:00 AM
6/10/2021
```



```
pythonProject - nathanaelcs.py
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject nathanaelcs.py
Project
  C:\Users\acer\PycharmP
    > idea
    > venv
      christian.py
      client.py
      main.py
      main1.py
      nael.py
      nael1.py
      natha.py
      nathal.py
      nathanaelcs.py
      server.py
      situmeang.py
      situmeang1.py
      Soal Pemro.py
Structure
  nathanaelcs.py
    class fighter:
    def __init__(self, nama, defend):
    self.nama = nama
    self.defend = defend
    def tampilkan_profil(self):
    print("  Nama  : ", self.nama)
    print("  Defend : ", self.defend)
    fighter1 = fighter("Martis", z)
    fighter2 = fighter("Alucard", x)
    print('1. Hero')
    fighter1.tampilkan_profil()
    print('2. Hero')
    fighter2.tampilkan_profil()
    player1 = {'name': 'Martis', 'defend': z}
    player2 = {'name': 'Alucard', 'defend': x - 1}
    def defend(attacker, defender):
    if (attacker['defend'] < defender['defend']):
    print('WIN')
    else:
    print('LOSE')
    defend(player2, player1)
    elif opsi == 2 : if pilihan == 1 : defend() : else
129:18 CRLF UTF-8 4 spaces Python 3.8 (pythonProject)
9:00 AM 6/10/2021
```

```
pythonProject - nathanaelcs.py
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject nathanaelcs.py
Run
  Run: nathanaelcs.py
  C:\Users\acer\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/acer/PycharmProjects/pythonProject/nathanaelcs.py
  Selamat Datang di Game Random Fighter
  Karakter Hero :
  1. Penyerang
  2. Bertahan
  Pilih Kategori Hero (Masukan Angka) :
  Hero :
  1. Martis
  2. Alucard
  Pilih Hero anda (Masukan Angka) :
  Pertarungan Dimulai!!!
  1. Hero
  Nama : Martis
  Power : 4
  2. Hero
  Nama : Alucard
  Power : 5
  WIN
  Process finished with exit code 0
24:1 CRLF UTF-8 4 spaces Python 3.8 (pythonProject)
9:01 AM 6/10/2021
```

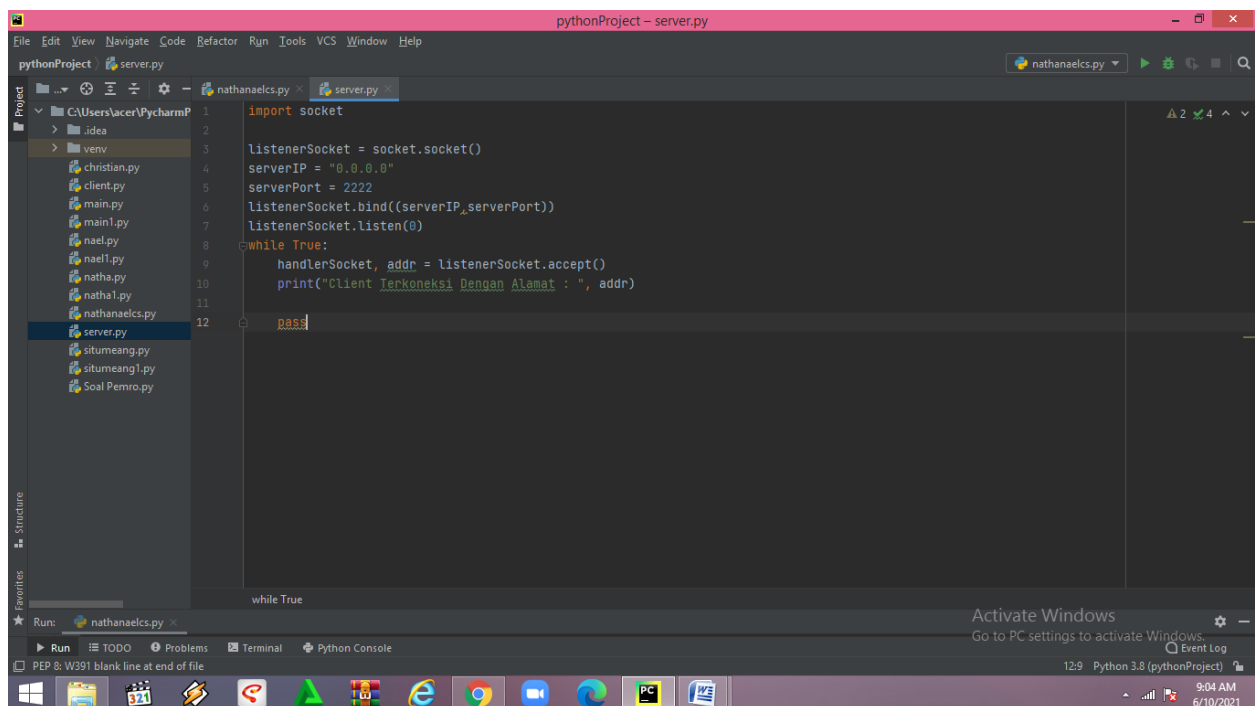
2. Socket (server and client)

server.py

```
import socket

listenerSocket = socket.socket()
serverIP = "0.0.0.0"
serverPort = 2222
listenerSocket.bind((serverIP,serverPort))
listenerSocket.listen(0)
while True:
    handlerSocket, addr = listenerSocket.accept()
    print("Client Terkoneksi Dengan Alamat : ", addr)

pass
```



client.py

```
import socket
```

```
handlerSocket = socket.socket()
```

```
serverIP = "127.0.0.1"
```

```
serverPort = 2222
```

```
handlerSocket.connect((serverIP,serverPort))
```

```
print("Terkoneksi Dengan Server")
```

