

NAMA : GUSLINA TRI SANTIKA

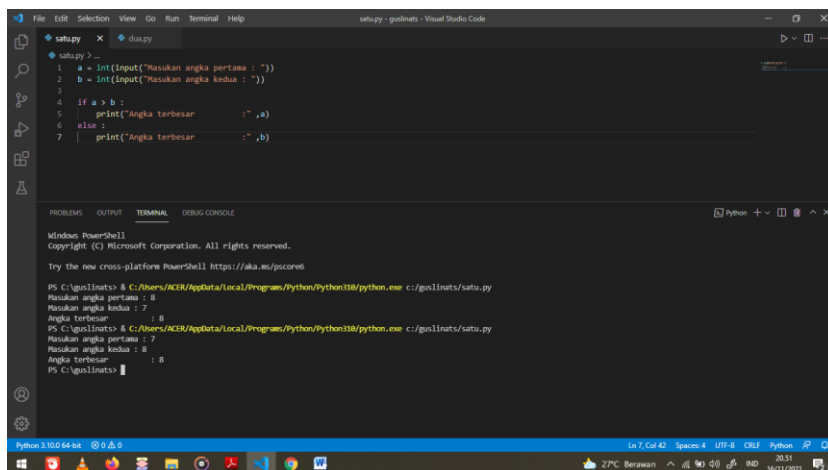
NIM : 20.01.013.049

KELAS : ARTIFICIAL INTELLIGENCE-3B

## TUGAS PRAKTIKUM PYTHON II-TUGAS

### 5.7 Praktikum

1.



```
File Edit Selection View Go Run Terminal Help
satu.py - Visual Studio Code

satu.py
1 a = int(input("Masukan angka pertama : "))
2 b = int(input("Masukan angka kedua : "))
3
4 if a > b :
5     print("Angka terbesar : ",a)
6 else :
7     print("Angka terbesar : ",b)

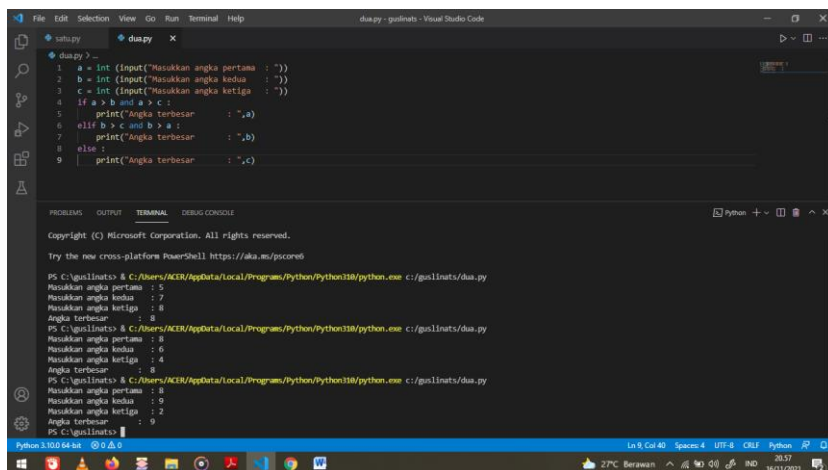
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python Python + - - - - -

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\guslins> & C:\Users\KICR\AppData\Local\Programs\Python\Python38\python.exe c:\guslins\satu.py
Masukan angka pertama : 8
Masukan angka kedua : 7
Angka terbesar : 8
PS C:\guslins> & C:\Users\KICR\AppData\Local\Programs\Python\Python38\python.exe c:\guslins\satu.py
Masukan angka pertama : 7
Masukan angka kedua : 8
Angka terbesar : 8
PS C:\guslins>
```

2.



```
File Edit Selection View Go Run Terminal Help
dua.py - Visual Studio Code

dua.py
1 a = int(input("Masukan angka pertama : "))
2 b = int(input("Masukan angka kedua : "))
3 c = int(input("Masukan angka ketiga : "))
4 if a > b and a > c :
5     print("Angka terbesar : ",a)
6 elif b > c and b > a :
7     print("Angka terbesar : ",b)
8 else :
9     print("Angka terbesar : ",c)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python Python + - - - - -

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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\guslins> & C:\Users\KICR\AppData\Local\Programs\Python\Python38\python.exe c:\guslins\dua.py
Masukan angka pertama : 5
Masukan angka kedua : 7
Masukan angka ketiga : 8
Angka terbesar : 8
PS C:\guslins> & C:\Users\KICR\AppData\Local\Programs\Python\Python38\python.exe c:\guslins\dua.py
Masukan angka pertama : 8
Masukan angka kedua : 6
Masukan angka ketiga : 4
Angka terbesar : 8
PS C:\guslins> & C:\Users\KICR\AppData\Local\Programs\Python\Python38\python.exe c:\guslins\dua.py
Masukan angka pertama : 8
Masukan angka kedua : 9
Masukan angka ketiga : 2
Angka terbesar : 9
PS C:\guslins>
```

**3.**

The screenshot displays a Windows 10 desktop environment. The primary focus is the Visual Studio Code editor, which is open to a file named 'tiga.py'. The code in the editor is a Python script that takes three user inputs and prints the maximum value. The script is as follows:

```

1 a = int(input("Masukkan angka pertama : "))
2 b = int(input("Masukkan angka kedua : "))
3 c = int(input("Masukkan angka ketiga : "))
4
5 if a == b :
6     print("Angka yang sama : ",a)
7 elif a == c :
8     print("Angka yang sama : ",a)
9 elif b == c :
10    print("Angka yang sama : ",b)
11 else :
12    print("Tidak ada angka yang sama")

```

Below the editor, the integrated terminal is active, showing the execution of the script. The terminal output is as follows:

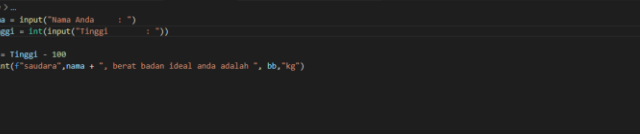
```

PS C:\ginitlino> C:\Users\ACSR\AppData\Local\Program\Python\Python118\python.exe c:\ginitlino\tiga.py
Masukkan angka pertama : 8
Masukkan angka kedua : 7
Masukkan angka ketiga : 8
Tidak ada angka yang sama
PS C:\ginitlino> C:\Users\ACSR\AppData\Local\Program\Python\Python118\python.exe c:\ginitlino\tiga.py
Masukkan angka pertama : 8
Masukkan angka kedua : 7
Masukkan angka ketiga : 8
Angka yang sama : 8
PS C:\ginitlino>

```

The taskbar at the bottom of the screen shows the system clock as 16/1/2021, 21:02, and the system tray includes icons for network, volume, and power. The taskbar also displays several open applications, including the Visual Studio Code editor and a file explorer window.

4.



The screenshot shows the Visual Studio Code interface. The editor window displays a Python file named 'empat.py' with the following code:

```

1  nama = input("Nama Anda : ")
2  Tinggi = int(input("Tinggi : "))
3
4  bb = Tinggi - 100
5  print("saudara",nama + ", berat badan ideal anda adalah ", bb,"kg")

```

The bottom panel shows the 'TERMINAL' tab. It displays the command prompt for a Windows PowerShell session, indicating the user is at the 'g:\nlinati>' prompt. The user has entered the command 'empat.py', and the output shows the program's execution:

```

PS C:\g\nlinati> C:\Users\KIR\AppData\Local\Program\Python\Python38\python.exe c:\g\nlinati\empat.py
Nama Anda : Ulin
Tinggi : 171
saudara Ulin, berat badan ideal anda adalah 71 kg
PS C:\g\nlinati>

```

The status bar at the bottom indicates the Python version is 3.10.0 64-bit, the file is encoded in UTF-8, and the editor is in 'Ln 2, Col 37'.

**5.**

```

1 def cost_function(weights, cost_history):
2     predicted = sigmoid(weights.dot(inputs))
3     cost = sum((y - predicted)**2) / 2
4     cost_history.append(cost)
5     return cost
6
7 # Initialize weights and bias
8 weights = [0.1, 0.1, 0.1]
9 bias = 0.1
10
11 # Learning rate
12 lr = 0.01
13
14 # Number of iterations
15 iterations = 1000
16
17 # Initialize cost history
18 cost_history = []
19
20 # Gradient descent loop
21 for i in range(iterations):
22     cost = cost_function(weights, cost_history)
23     # Compute gradients
24     # ... (omitted for brevity) ...
25     # Update weights and bias
26     weights = weights - lr * gradient_weights
27     bias = bias - lr * gradient_bias
28
29 # Final parameters
30 weights = weights
31 bias = bias
32 cost_history = cost_history

```

```

C:\Users\user> pip install torch torchvision torchaudio
Processing C:\Users\user\AppData\Local\Temp\pip-install-30000000\torch-2.0.1
Processing C:\Users\user\AppData\Local\Temp\pip-install-30000000\torchvision-0.15.2
Processing C:\Users\user\AppData\Local\Temp\pip-install-30000000\torchaudio-2.0.2
Collecting torch
  Downloading torch-2.0.1-cp39-cp39-win_amd64.whl from https://pypi.org/packages/
    ...
Collecting torchvision
  Downloading torchvision-0.15.2-cp39-cp39-win_amd64.whl from https://pypi.org/packages/
    ...
Collecting torchaudio
  Downloading torchaudio-2.0.2-cp39-cp39-win_amd64.whl from https://pypi.org/packages/
    ...
Installing collected packages: torch, torchvision, torchaudio
Successfully installed torch-2.0.1 torchvision-0.15.2 torchaudio-2.0.2

```

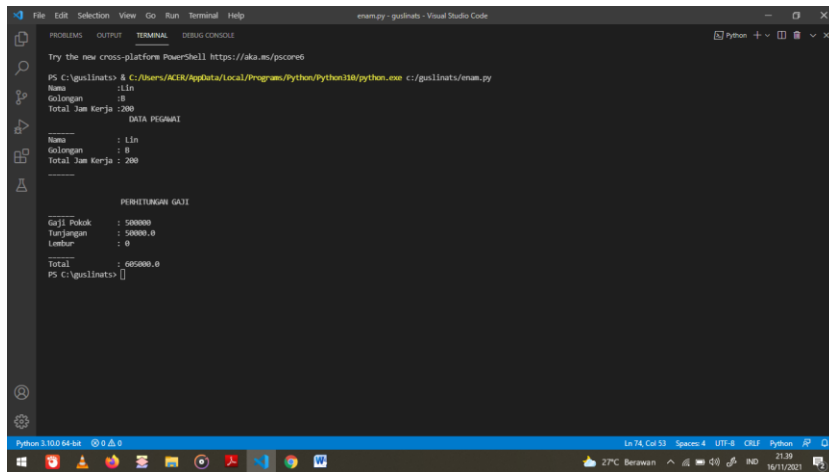
6.

```
File Edit Selection View Go Run Terminal Help
+ enampy.py - gisulnats - Visual Studio Code
+ salsapy + duap.py + tipap.py + empat.py + lima.py + enampy
enampy.py
1 name = input("Nama : ")
2 gol = input("Golongan : ")
3 jaker = int(input("Total Jam Kerja : "))
4 gapokA = 50000
5 tija = 10/100 * gapokA
6 labrA = 5000
7 gapokB = 70000
8 tijaB = 10/100 * gapokB
9 labrB = 7500
10 gapokC = 90000
11 tijaC = 20/100 * gapokC
12 labrC = 10000
13
14 if gol == 'A':
15     labr = jaker * 200
16     labr = labr * labrA
17     gaji = gapokA + tijaA + labr
18
19     print("DATA PEGAWAI".center(50))
20     print("____")
21     print("Nama : ",name)
22     print("Golongan : ",gol)
23     print("Total Jam Kerja : ",jaker)
24     print("____")
25     print("\n")
26     print("PERHITUNGAN GAJI".center(50))
27     print("____")
28     print("Gaji Pokok : ",gapokA)
29     print("Tunjangan : ",tijaA)
30     print("Lembur : ",labr)
31     print("____")
32     print("Total : ",gaji)
33
Python 3.10.0 64-bit 0 0 0 Ln 74, Col 52, Spaces: 4, UTF-8, CRLF Python 21:27 16/11/2023
```

```
File Edit Selection View Go Run Terminal Help
+ enampy.py - gisulnats - Visual Studio Code
+ salsapy + duap.py + tipap.py + empat.py + lima.py + enampy
enampy.py
25 print("\n")
26 print("PERHITUNGAN GAJI".center(50))
27 print("____")
28 print("Gaji Pokok : ",gapokA)
29 print("Tunjangan : ",tijaA)
30 print("Lembur : ",labr)
31 print("____")
32 print("Total : ",gaji)
33
34 elif gol == 'B':
35     labr = jaker * 200
36     labr = labr * labrB
37     gaji = gapokA + tijaB + labr
38
39     print("DATA PEGAWAI".center(50))
40     print("____")
41     print("Nama : ",name)
42     print("Golongan : ",gol)
43     print("Total Jam Kerja : ",jaker)
44     print("____")
45     print("\n")
46     print("PERHITUNGAN GAJI".center(50))
47     print("____")
48     print("Gaji Pokok : ",gapokA)
49     print("Tunjangan : ",tijaA)
50     print("Lembur : ",labr)
51     print("____")
52     print("Total : ",gaji)
53
54 elif gol == 'C':
55     labr = jaker * 200
56     labr = labr * labrC
57     gaji = gapokA + tijaC + labr
58
59     print("DATA PEGAWAI".center(50))
60     print("____")
61     print("Nama : ",name)
62     print("Golongan : ",gol)
63     print("Total Jam Kerja : ",jaker)
64     print("____")
65     print("\n")
66     print("PERHITUNGAN GAJI".center(50))
67     print("____")
68     print("Gaji Pokok : ",gapokA)
69     print("Tunjangan : ",tijaA)
70     print("Lembur : ",labr)
71     print("____")
72     print("Total : ",gaji)
73
Python 3.10.0 64-bit 0 0 0 Ln 74, Col 52, Spaces: 4, UTF-8, CRLF Python 21:28 16/11/2023
```

```
File Edit Selection View Go Run Terminal Help
+ enampy.py - gisulnats - Visual Studio Code
+ salsapy + duap.py + tipap.py + empat.py + lima.py + enampy
enampy.py
44 print("____")
45 print("PERHITUNGAN GAJI".center(50))
46 print("____")
47 print("Gaji Pokok : ",gapokA)
48 print("Tunjangan : ",tijaA)
49 print("Lembur : ",labr)
50 print("____")
51 print("Total : ",gaji)
52
53 elif gol == 'C':
54     labr = jaker * 200
55     labr = labr * labrC
56     gaji = gapokA + tijaC + labr
57
58     print("DATA PEGAWAI".center(50))
59     print("____")
60     print("Nama : ",name)
61     print("Golongan : ",gol)
62     print("Total Jam Kerja : ",jaker)
63     print("____")
64     print("\n")
65     print("PERHITUNGAN GAJI".center(50))
66     print("____")
67     print("Gaji Pokok : ",gapokA)
68     print("Tunjangan : ",tijaA)
69     print("Lembur : ",labr)
70     print("____")
71     print("Total : ",gaji)
72
73 else:
74     print("Perintah tidak dikenali, silakan coba")
75
Python 3.10.0 64-bit 0 0 0 Ln 74, Col 53, Spaces: 4, UTF-8, CRLF Python 21:29 16/11/2023
```

## Output :



```
File Edit Selection View Go Run Terminal Help
emam.py - gulinats - Visual Studio Code

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\gulinats> & C:\Users\ACER\AppData\Local\Programs\Python\Python310/python.exe c:/gulinats/emam.py
Nama : Lin
Golongan : B
Total Jam Kerja : 200

DATA PEKERJA

Nama : Lin
Golongan : B
Total Jam Kerja : 200

PERHITUNGAN GAJI

Gaji Pokok : 500000
Tunjangan : 50000.0
Lembur : 0
Total : 605000.0
PS C:\gulinats> []
```