

Nama : M.Dimas Sakti Maulana

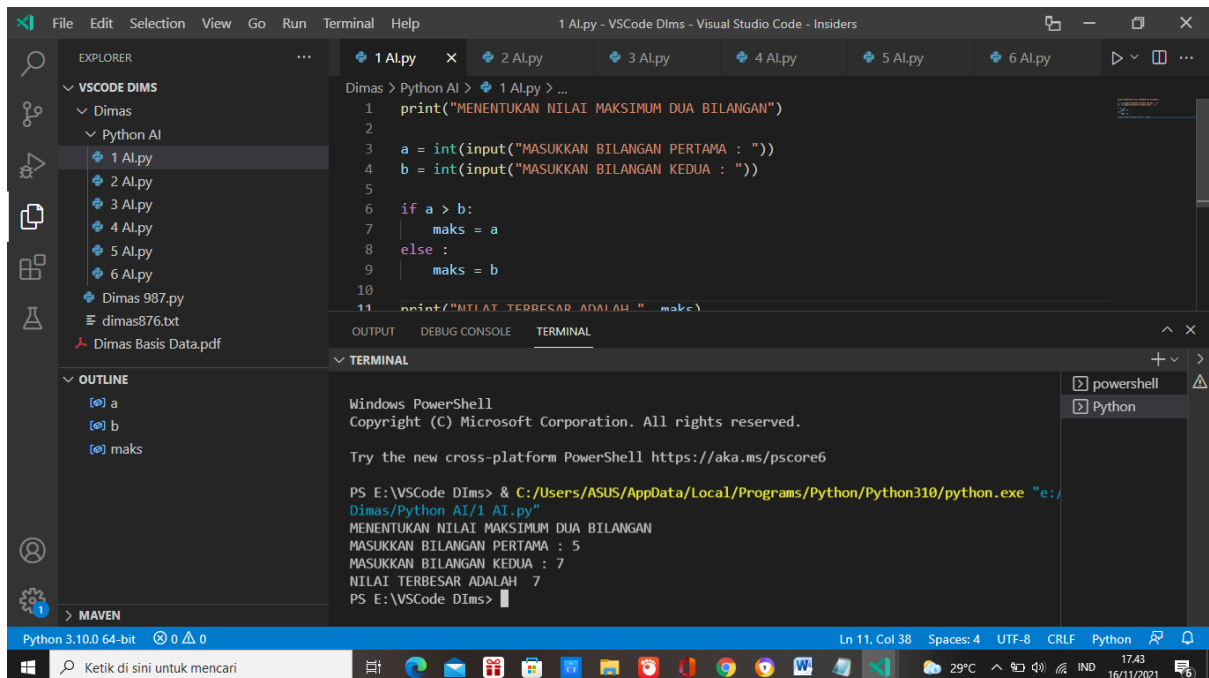
NIM : 20.01.103.037

Matkul : Artificial Intelligence

## Praktikum 2

### 5.7 Praktikum

1. Program menerima dua buah bilangan integer dan menampilkan bilangan terbesar



The screenshot shows the Visual Studio Code interface with a Python file named '1 AI.py' open. The code in the editor is as follows:

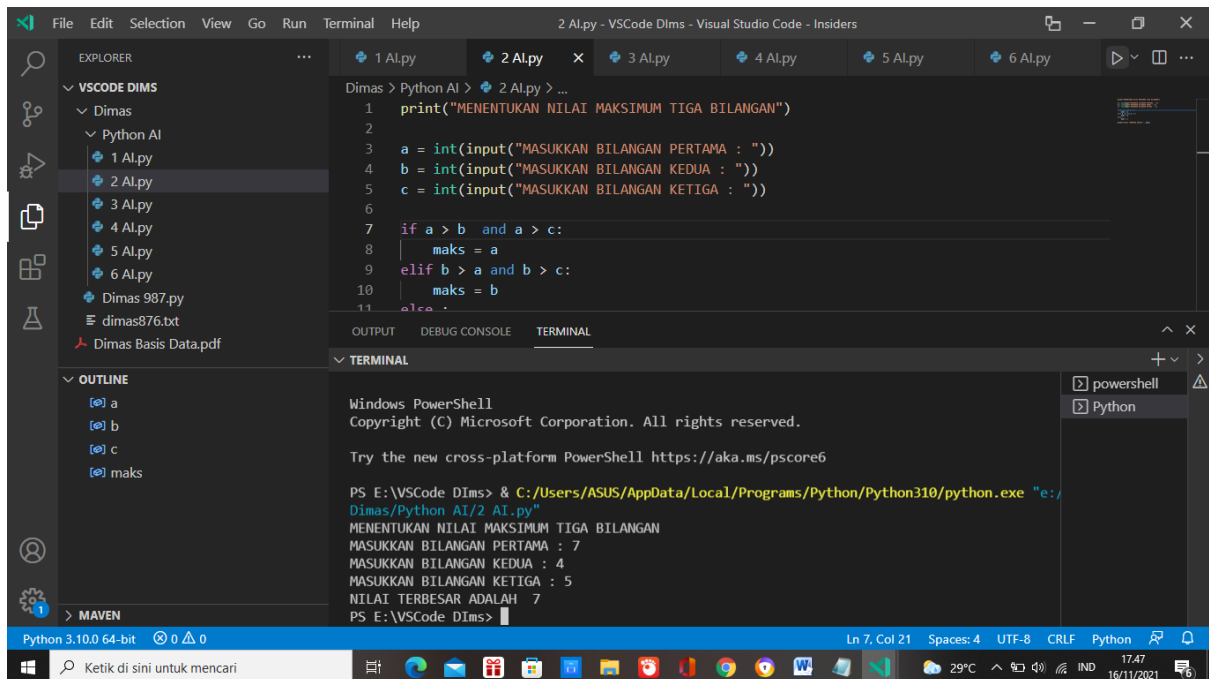
```
1 print("MENENTUKAN NILAI MAKSIMUM DUA BILANGAN")
2
3 a = int(input("MASUKKAN BILANGAN PERTAMA : "))
4 b = int(input("MASUKKAN BILANGAN KEDUA : "))
5
6 if a > b:
7     maks = a
8 else:
9     maks = b
10
11 print("NILAI TERBESAR ADALAH " + maks)
```

The Explorer sidebar on the left shows a project named 'VSCODE DIMS' containing a folder 'Dimas' with a subfolder 'Python AI' containing six files named '1 AI.py' through '6 AI.py'. The Outline sidebar shows variables 'a', 'b', and 'maks'. The Terminal at the bottom shows the command prompt output:

```
PS E:\VSCODE DIMS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "e:/Dimas/Python AI/1 AI.py"
MENENTUKAN NILAI MAKSIMUM DUA BILANGAN
MASUKKAN BILANGAN PERTAMA : 5
MASUKKAN BILANGAN KEDUA : 7
NILAI TERBESAR ADALAH 7
PS E:\VSCODE DIMS>
```

The status bar at the bottom indicates 'Python 3.10.0 64-bit' and 'Ln 11, Col 38'.

## 2. Program No.1 hingga No.3 dan menampilkan bilangan terbesar



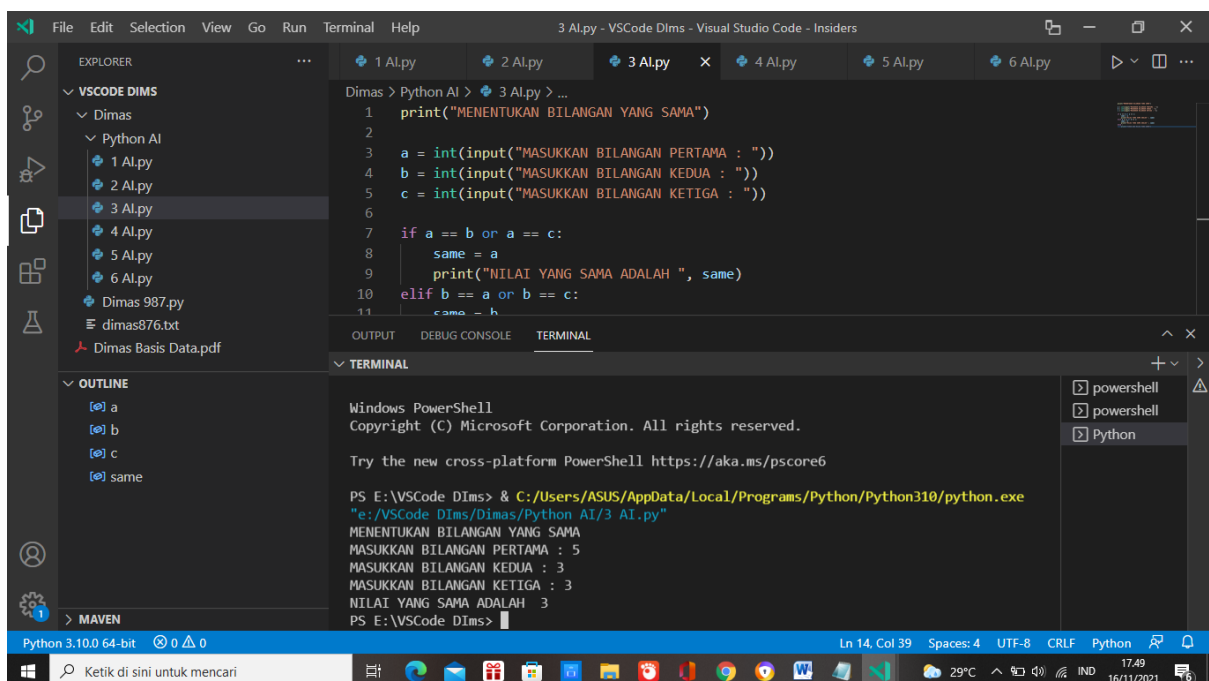
The screenshot shows the Visual Studio Code editor with a Python file named '2 AI.py'. The code prompts the user to enter three numbers and then determines the maximum value. The terminal output shows the execution of the program with inputs 7, 4, and 5, resulting in the maximum value of 7.

```
1 print("MENENTUKAN NILAI MAKSIMUM TIGA BILANGAN")
2
3 a = int(input("MASUKKAN BILANGAN PERTAMA : "))
4 b = int(input("MASUKKAN BILANGAN KEDUA : "))
5 c = int(input("MASUKKAN BILANGAN KETIGA : "))
6
7 if a > b and a > c:
8     maks = a
9 elif b > a and b > c:
10    maks = b
11 else:
12    maks = c
13 print(maks)
```

Terminal Output:

```
PS E:\VSCODE DIMS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/VSCODE DIMS/Python AI/2 AI.py"
MENENTUKAN NILAI MAKSIMUM TIGA BILANGAN
MASUKKAN BILANGAN PERTAMA : 7
MASUKKAN BILANGAN KEDUA : 4
MASUKKAN BILANGAN KETIGA : 5
NILAI TERBESAR ADALAH 7
PS E:\VSCODE DIMS>
```

## 3. Memeriksa bilangan yang sama dari tiga bilangan yang sama



The screenshot shows the Visual Studio Code editor with a Python file named '3 AI.py'. The code prompts the user to enter three numbers and then checks if they are all the same. The terminal output shows the execution of the program with inputs 5, 3, and 3, resulting in the output 'NILAI YANG SAMA ADALAH 3'.

```
1 print("MENENTUKAN BILANGAN YANG SAMA")
2
3 a = int(input("MASUKKAN BILANGAN PERTAMA : "))
4 b = int(input("MASUKKAN BILANGAN KEDUA : "))
5 c = int(input("MASUKKAN BILANGAN KETIGA : "))
6
7 if a == b and a == c:
8     same = a
9     print("NILAI YANG SAMA ADALAH ", same)
10 elif b == a and b == c:
11     same = b
12 elif c == a and c == b:
13     same = c
14 else:
15     print("Tidak ada bilangan yang sama")
16
```

Terminal Output:

```
PS E:\VSCODE DIMS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "e:/VSCODE DIMS/Python AI/3 AI.py"
MENENTUKAN BILANGAN YANG SAMA
MASUKKAN BILANGAN PERTAMA : 5
MASUKKAN BILANGAN KEDUA : 3
MASUKKAN BILANGAN KETIGA : 3
NILAI YANG SAMA ADALAH 3
PS E:\VSCODE DIMS>
```

#### 4. Program menghitung berat badan seseorang dan tinggi dikurangi 100

The screenshot shows the Visual Studio Code interface with a Python file named '4 AI.py' open. The code is as follows:

```
1 nama = input("Nama Anda : ")
2 tinggi = int(input("Tinggi : "))
3 ideal = tinggi - 100
4 print(f"Saudara {nama}, berat ideal anda adalah {ideal} kg")
```

The terminal output shows the program being executed in a PowerShell window:

```
PS E:\VSCode DIMS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "e:/Dimas/Python AI/4 AI.py"
Nama Anda : Dimas
Tinggi : 135
Saudara Dimas, berat ideal anda adalah 35 kg
PS E:\VSCode DIMS>
```

The Explorer panel on the left shows the project structure with files '1 AI.py', '2 AI.py', '3 AI.py', '4 AI.py', '5 AI.py', '6 AI.py', 'Dimas 987.py', 'dimas876.txt', and 'Dimas Basis Data.pdf'. The Outline panel shows variables 'nama', 'tinggi', and 'ideal'.

#### 5. Program menghitung Nilai akhir dan grade mata kuliah pemrograman

The screenshot shows the Visual Studio Code interface with a Python file named '5 AI.py' open. The code is as follows:

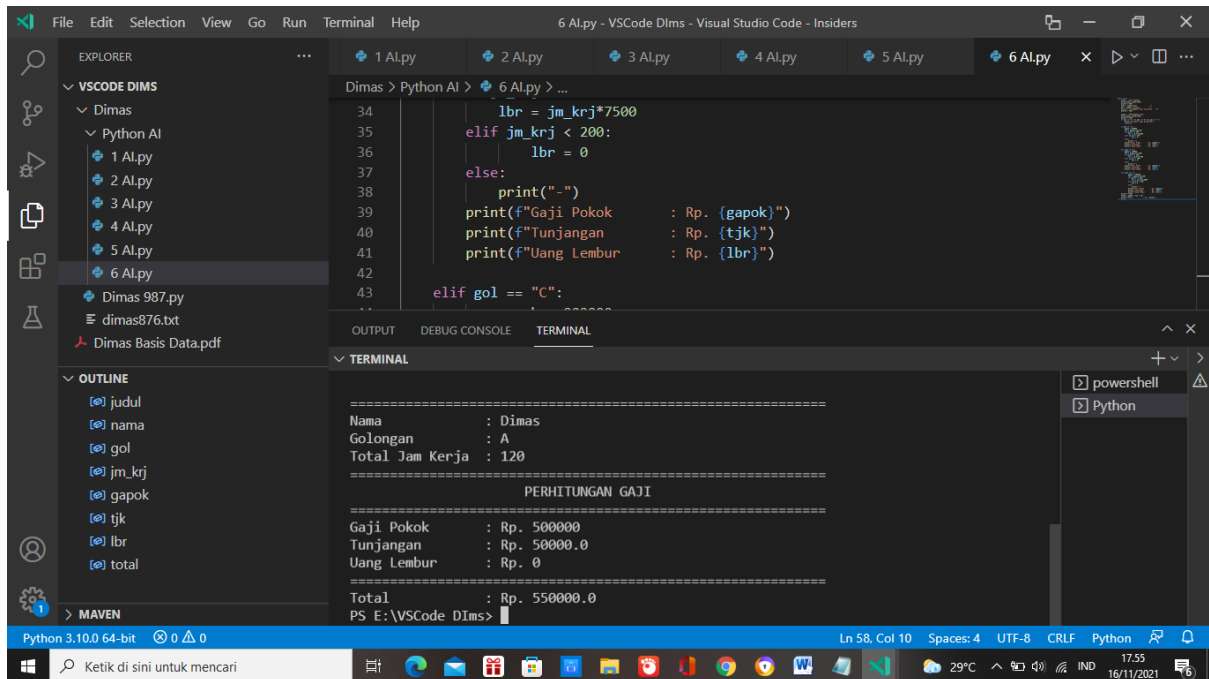
```
1 judul = "DATA NILAI MAHASISWA"
2 print(judul.rjust(70))
3 print("-"*70)
4 tugas = float(input("Masukkan Nilai Tugas = "))
5 UTS = int(input("Masukkan Nilai UTS = "))
6 UAS = int(input("Masukkan Nilai UAS = "))
7
8 NA = (0.25 * tugas) + (0.35 * UTS) + (0.40 * UAS)
9 print("-"*70)
10 judul = "NILAI AKHIR DAN GRADE"
11 print(judul.rjust(70))
```

The terminal output shows the program being executed in a PowerShell window:

```
Dimas/Python AI/5 AI.py
DATA NILAI MAHASISWA
-----
Masukkan Nilai Tugas = 80
Masukkan Nilai UTS = 85
Masukkan Nilai UAS = 89
-----
NILAI AKHIR DAN GRADE
-----
Nama = Dimas
85.35
Grade = A
PS E:\VSCode DIMS>
```

The Explorer panel on the left shows the project structure with files '1 AI.py', '2 AI.py', '3 AI.py', '4 AI.py', '5 AI.py', '6 AI.py', 'Dimas 987.py', 'dimas876.txt', and 'Dimas Basis Data.pdf'. The Outline panel shows variables 'judul', 'tugas', 'UTS', 'UAS', 'NA', and 'grade'.

## 6. Program menghitung gaji seorang karyawan di sebuah perusahaan



The screenshot displays the Visual Studio Code interface with a Python file named `6 Al.py` open. The code is a Python script that calculates an employee's salary based on their name, category, and working hours. The script uses conditional logic to determine the base salary, bonus, and overtime pay.

```
34     lbr = jm_krj*7500
35     elif jm_krj < 200:
36         lbr = 0
37     else:
38         print("-")
39         print(f"Gaji Pokok      : Rp. {gapok}")
40         print(f"Tunjangan      : Rp. {tjk}")
41         print(f"Uang Lembur     : Rp. {lbr}")
42
43     elif gol == "C":
44         lbr = jm_krj*7500
```

The terminal output shows the results of the program execution for an employee named Dimas, category A, with 120 working hours. The output displays the calculated salary components and the total salary.

```
=====
Nama      : Dimas
Golongan  : A
Total Jam Kerja : 120
=====
                        PERHITUNGAN GAJI
=====
Gaji Pokok      : Rp. 500000
Tunjangan       : Rp. 50000.0
Uang Lembur     : Rp. 0
=====
Total          : Rp. 550000.0
PS E:\VSCode DIma>
```

The interface also shows the Explorer panel with a project named `VSCODE DIMS` containing several files, including `Dimas 987.py`, `Dimas 876.txt`, and `Dimas Basis Data.pdf`. The Outline panel shows the structure of the code, including variables like `judul`, `nama`, `gol`, `jm_krj`, `gapok`, `tjk`, `lbr`, and `total`.