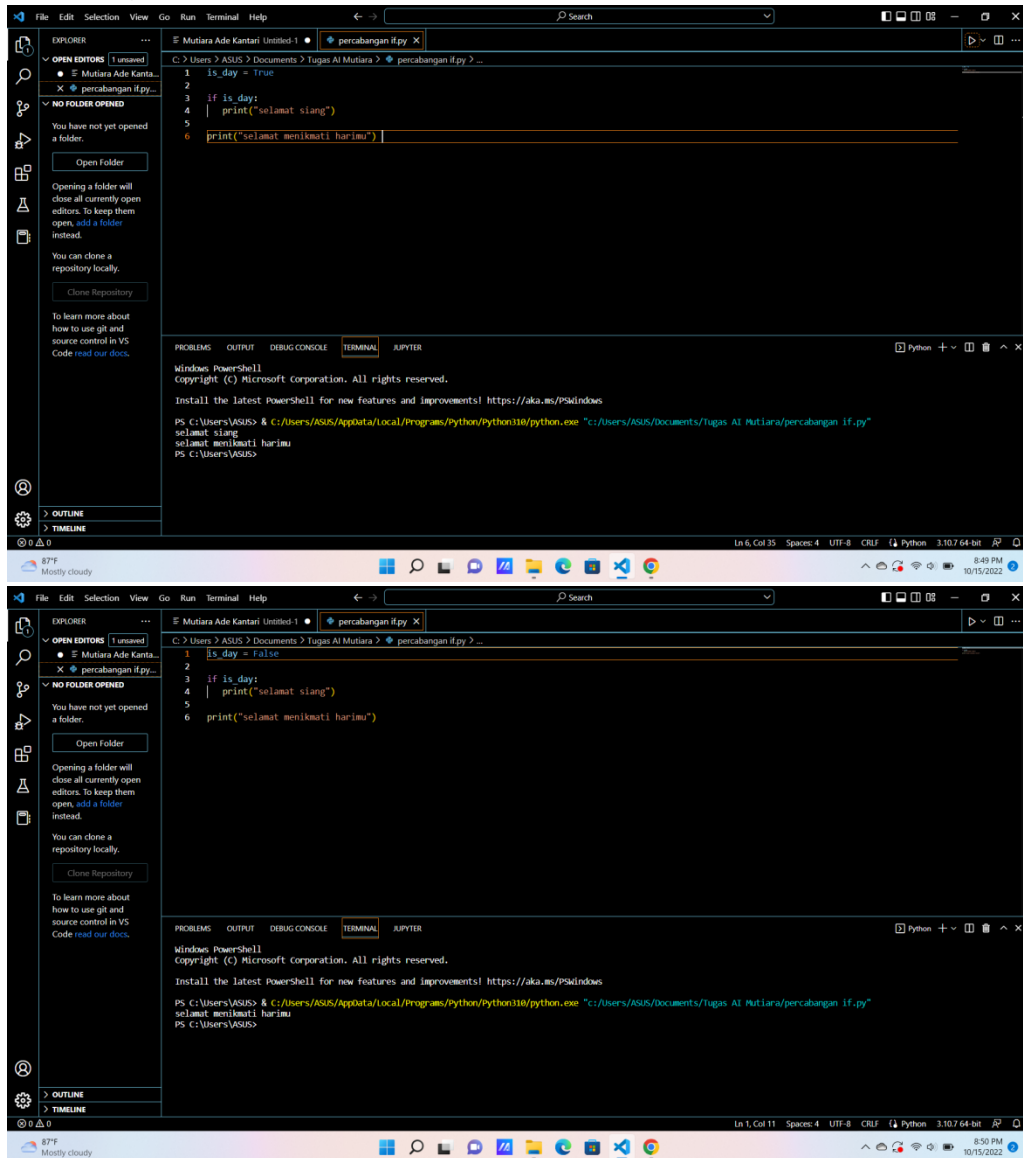


MINGGU II PY3

NAMA : MUTIARA ADE KANTARI

NIM : 211001065

1. Percabangan If



```
File Edit Selection View Go Run Terminal Help
C: > Users > ASUS > Documents > Tugas AI Mutiara > percabangan if.py > ...
1 is_day = True
2
3 if is_day:
4     print("selamat siang")
5
6 print("selamat menikmati harimu")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python 3.10.7 64-bit

Windows PowerShell
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Documents\Tugas AI Mutiara\percabangan if.py"
selamat siang
selamat menikmati harimu
PS C:\Users\ASUS>
```

```
File Edit Selection View Go Run Terminal Help
C: > Users > ASUS > Documents > Tugas AI Mutiara > percabangan if.py > ...
1 is_day = False
2
3 if is_day:
4     print("selamat siang")
5
6 print("selamat menikmati harimu")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python 3.10.7 64-bit

Windows PowerShell
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Documents\Tugas AI Mutiara\percabangan if.py"
selamat menikmati harimu
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a file named 'percabangan if.py'. The Editor panel displays the following Python code:

```
1 is_day = False
2
3 if is_day:
4     print("selamat siang")
5 else:
6     print("selamat malam")
7
8 print("selamat menikmati harimu")
```

The Terminal panel at the bottom shows the output of running the script:

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/percabangan if.py"
selamat malam
selamat menikmati harimu
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a file named 'percabangan if.py'. The Editor panel displays the following Python code:

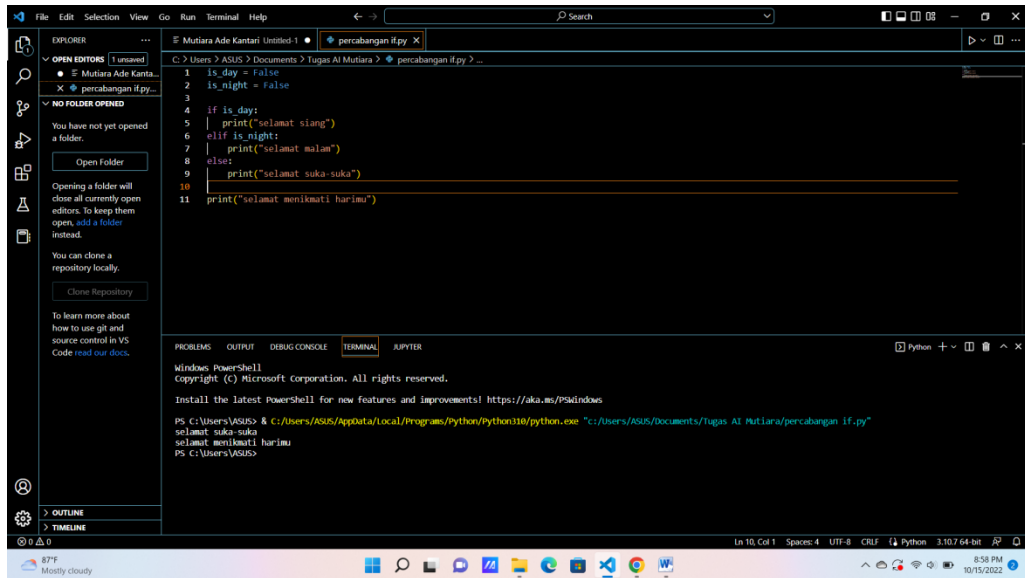
```
1 is_day = True
2 is_night = True
3
4 if is_day:
5     print("selamat siang")
6 elif is_night:
7     print("selamat malam")
8 else:
9     print("selamat suka-suka")
10
11 print("selamat menikmati harimu")
```

The Terminal panel at the bottom shows the output of running the script:

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/percabangan if.py"
selamat siang
selamat menikmati harimu
PS C:\Users\ASUS>
```



The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows a file named 'percabangan if.py'. The Editor panel displays the following Python code:

```
1 is_day = False
2 is_night = False
3
4 if is_day:
5     print("selamat siang")
6 elif is_night:
7     print("selamat malam")
8 else:
9     print("selamat suka-suka")
10
11 print("selamat menikmati harimu")
```

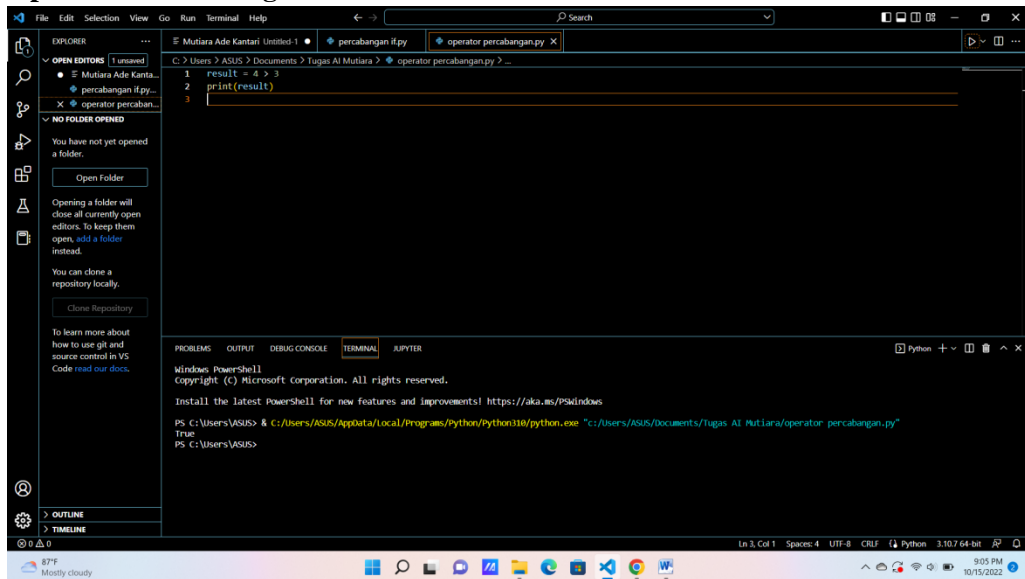
The Terminal panel at the bottom shows the output of the script:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/percabangan if.py"
selamat suka-suka
selamat menikmati harimu
PS C:\Users\ASUS>
```

2. Operator Perbandingan



The screenshot shows the Visual Studio Code editor interface. The Explorer panel on the left shows a file named 'operator percabangan.py'. The Editor panel displays the following Python code:

```
1 result = 4 > 3
2 print(result)
3
```

The Terminal panel at the bottom shows the output of the script:

```
Windows PowerShell
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutiara/operator percabangan.py"
True
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a file named 'operator_percabangan.py'. The Editor pane displays the following Python code:

```
1 result = 4 < 3
2 print(result)
3
```

The Terminal pane at the bottom shows the output of running the script:

```
Windows PowerShell
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PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator_percabangan.py"
True
PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator_percabangan.py"
False
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a file named 'operator_percabangan.py'. The Editor pane displays the following Python code:

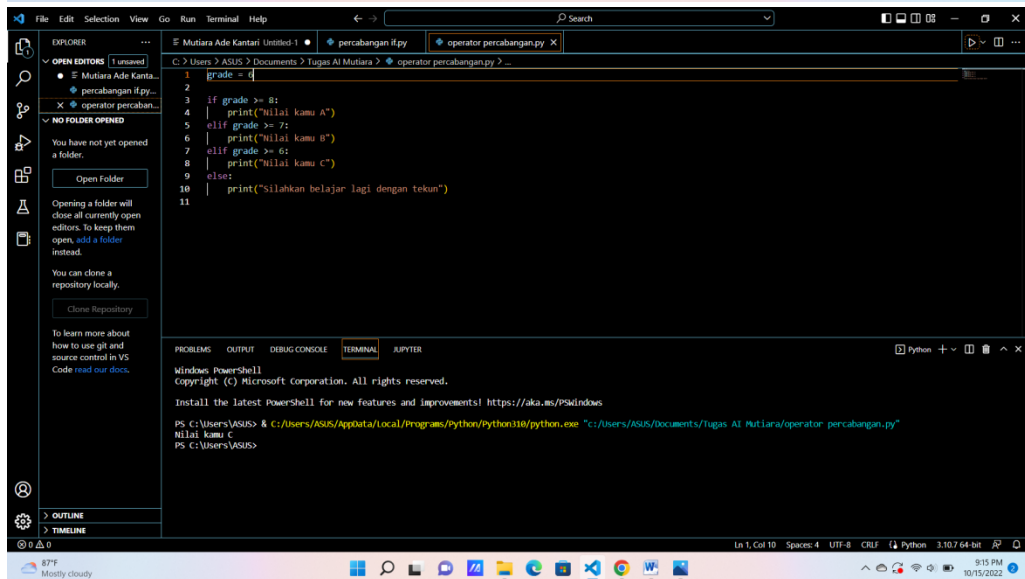
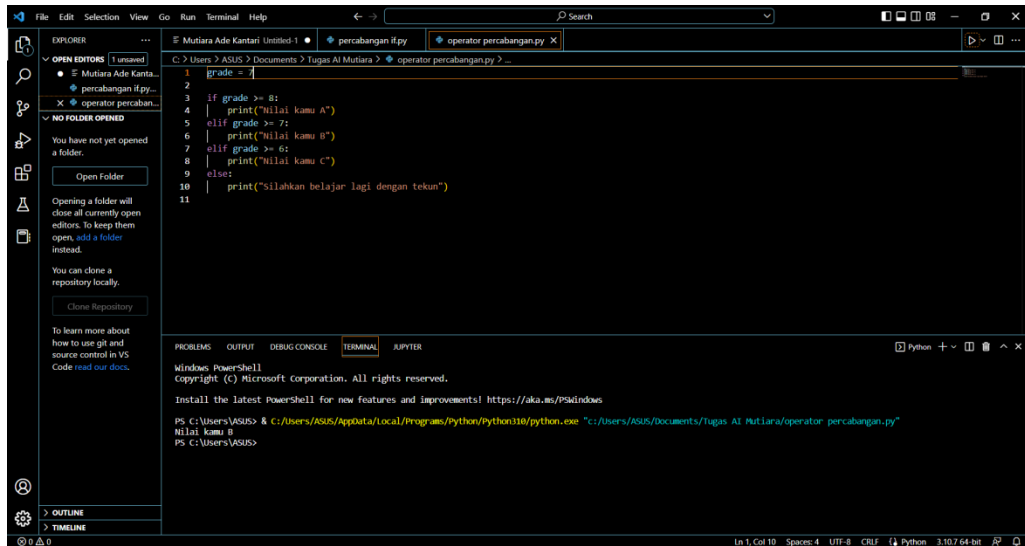
```
1 grade = 9
2
3 if grade >= 8:
4     print("Nilai kamu A")
5 else:
6     print("Nilai kamu selain A")
7
```

The Terminal pane at the bottom shows the output of running the script:

```
Windows PowerShell
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PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/Tugas AI Mutiara/operator_percabangan.py"
Nilai Kamu A
PS C:\Users\ASUS>
```



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project named 'Mutlara Ade Kantari' with a file 'operator_percabangan.py'. The main editor area displays the following Python code:

```
1 grade = 5
2
3 if grade >= 8:
4     print("Nilai kamu A")
5 elif grade >= 7:
6     print("Nilai kamu B")
7 elif grade >= 6:
8     print("Nilai kamu C")
9 else:
10    print("Silahkan belajar lagi dengan tekun")
11
```

The TERMINAL pane at the bottom shows the command prompt output:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutlara/operator_percabangan.py"
Silahkan belajar lagi dengan tekun
PS C:\Users\ASUS>
```

3. Operator logika

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project named 'Mutlara Ade Kantari' with a file 'operator_logika.py'. The main editor area displays the following Python code:

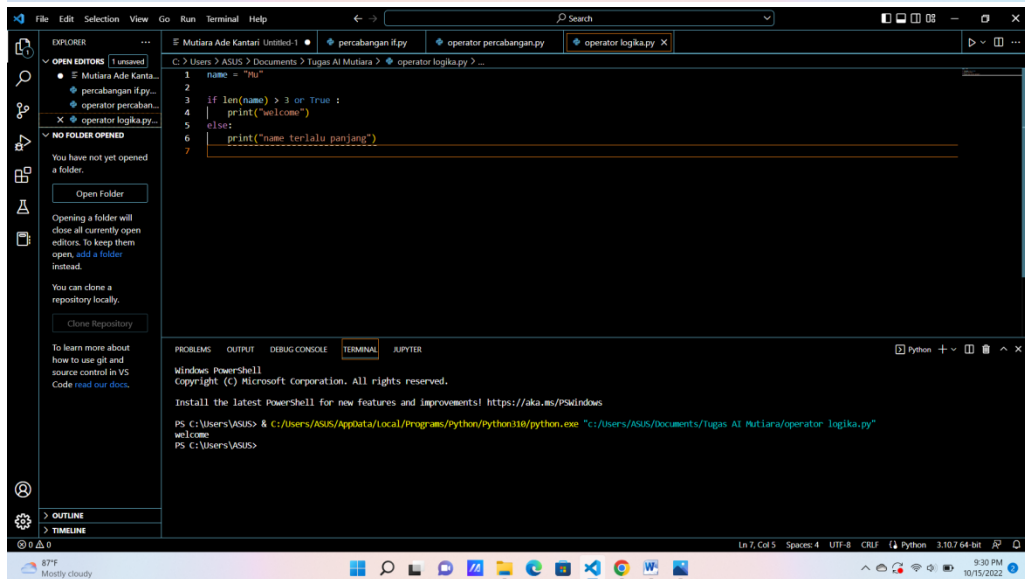
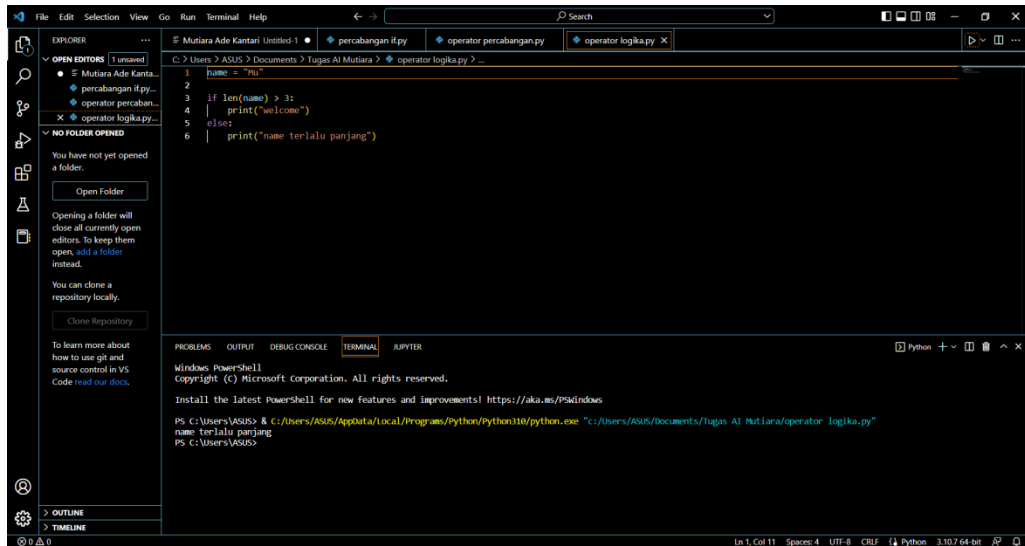
```
1 name = "Mutlara Ade Kantari"
2
3 if len(name) > 3:
4     print("welcome")
5 else:
6     print("name terlalu panjang")
```

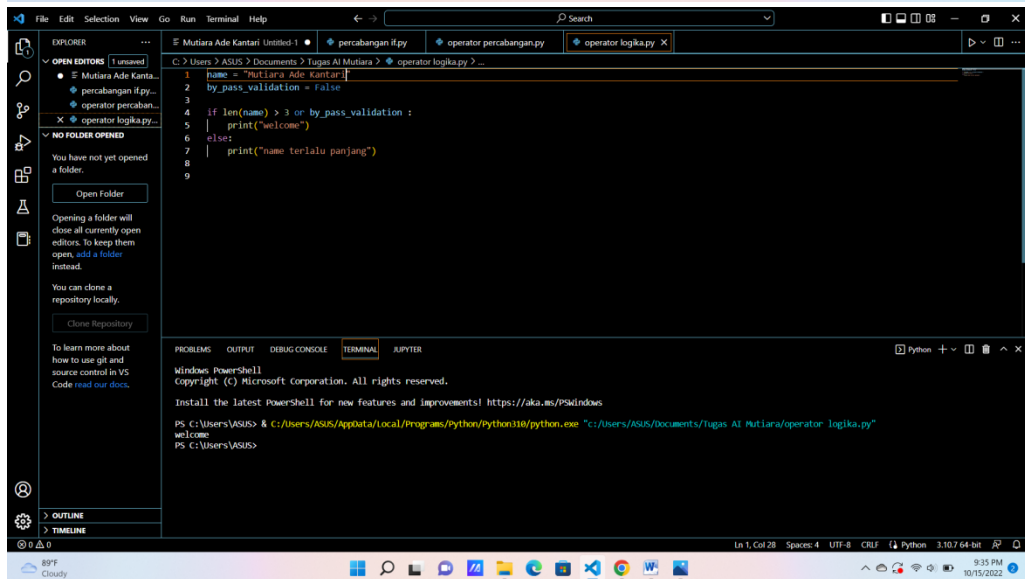
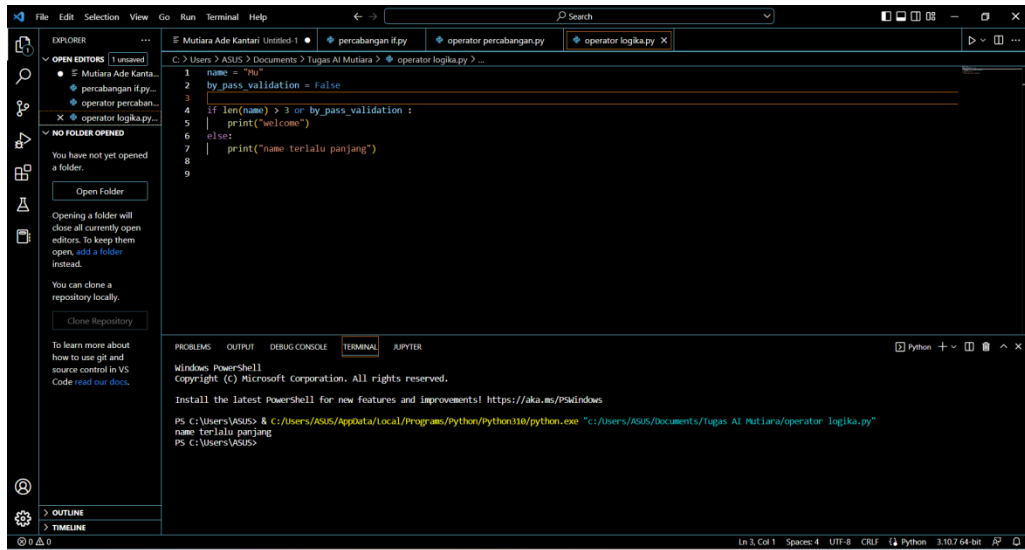
The TERMINAL pane at the bottom shows the command prompt output:

```
Windows PowerShell
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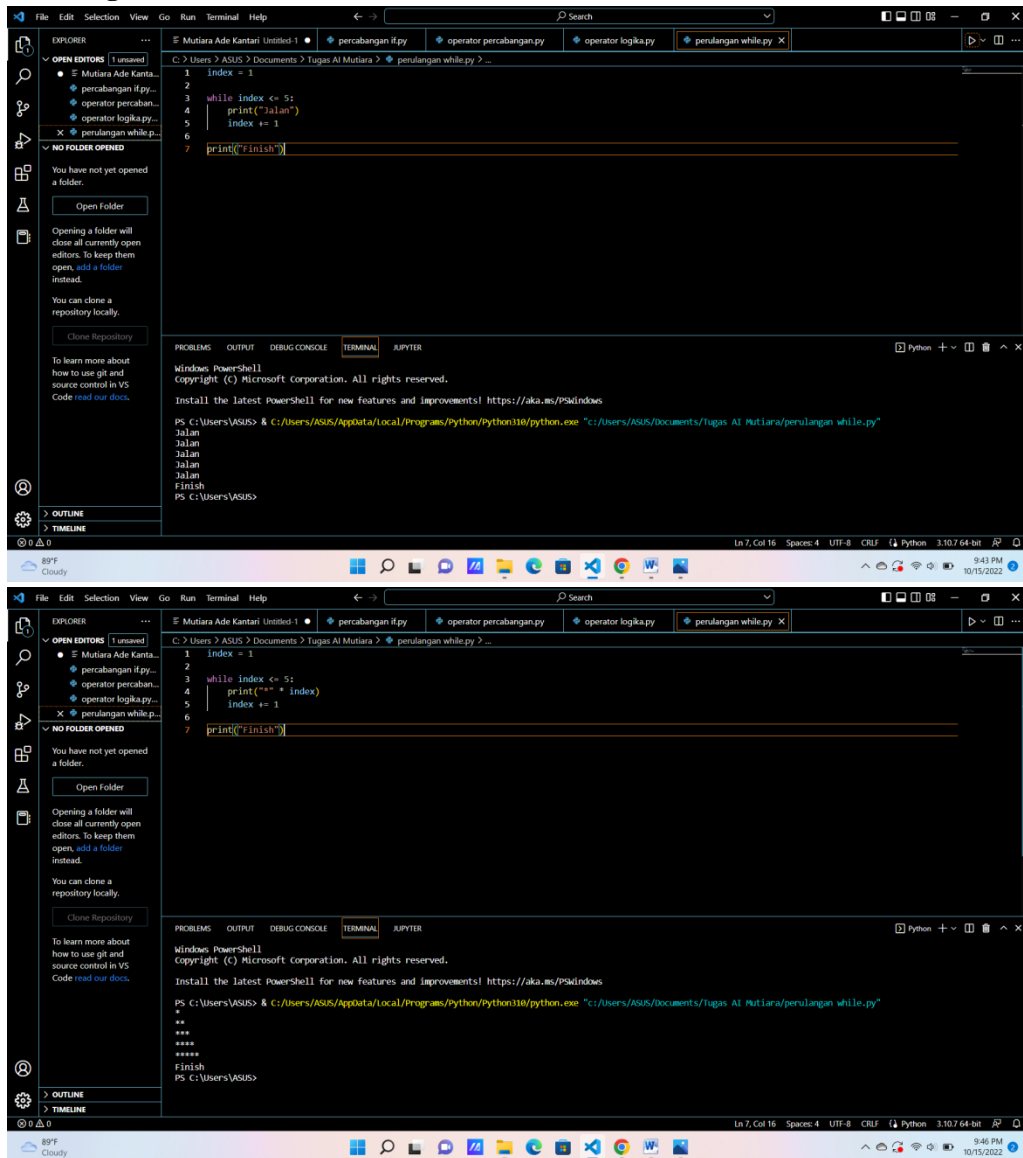
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PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/ASUS/Documents/Tugas AI Mutlara/operator_logika.py"
welcome
PS C:\Users\ASUS>
```





4. Perulangan while



The image displays two screenshots of a Visual Studio Code (VS Code) editor window, illustrating the execution of a Python program using a while loop.

Top Screenshot: The editor shows a file named `perulangan while.py` with the following code:

```
1 index = 1
2
3 while index <= 5:
4     print("Jalan")
5     index += 1
6
7 print("Finish")
```

The terminal output shows the execution of the program:

```
Windows PowerShell
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PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/tugas AI Mutiara/perulangan while.py"
Jalan
Jalan
Jalan
Jalan
Jalan
Finish
PS C:\Users\ASUS>
```

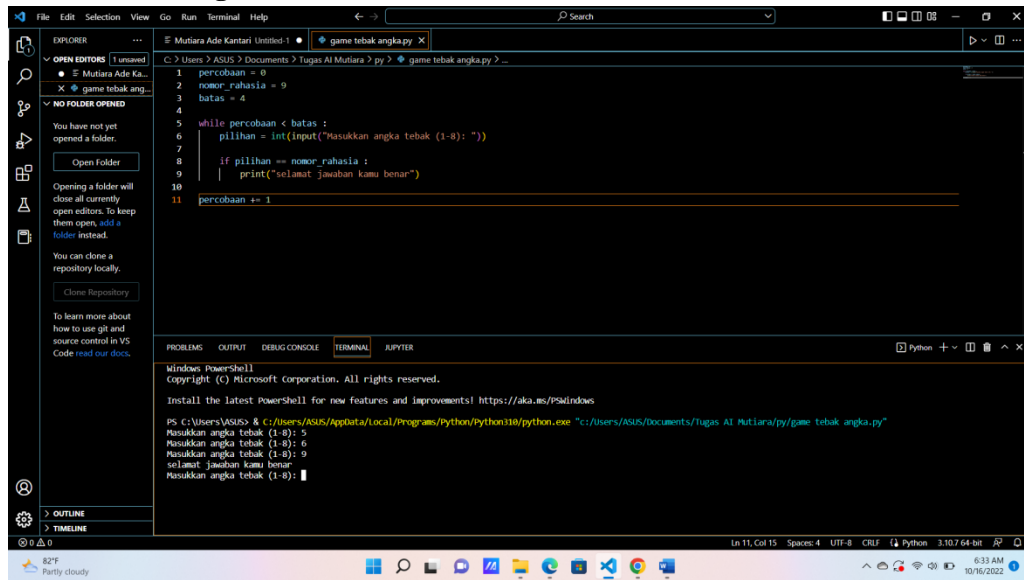
Bottom Screenshot: This screenshot shows the same code in the editor, but the terminal output is more complete, showing the final output of the program:

```
Windows PowerShell
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PS C:\Users\ASUS> & c:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/tugas AI Mutiara/perulangan while.py"
***
****
*****
Finish
PS C:\Users\ASUS>
```

5. Game Tebak Angka



The image shows a Visual Studio Code editor window with a Python file named `game_tebak_angka.py` open. The code is a simple number guessing game. Below the editor, a terminal window shows the execution of the script using Python 3.10.7.64-bit. The user has entered the number 5, and the program has printed "Selamat, jawaban kamu benar!" (Congratulations, your answer is correct!).

```
1 percobaan = 0
2 nomor_rahasia = 9
3 batas = 4
4
5 while percobaan < batas :
6     pilihan = int(input("Masukkan angka tebak (1-8): "))
7
8     if pilihan == nomor_rahasia :
9         print("Selamat, jawaban kamu benar!")
10
11     percobaan += 1
```

Terminal Output:

```
Windows PowerShell
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PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Documents\tugas AI Mutiara\py\game_tebak_angka.py"
Masukkan angka tebak (1-8): 5
Masukkan angka tebak (1-8): 6
Masukkan angka tebak (1-8): 9
Selamat, jawaban kamu benar
Masukkan angka tebak (1-8):
```

6. Aplikasi Kalkulator