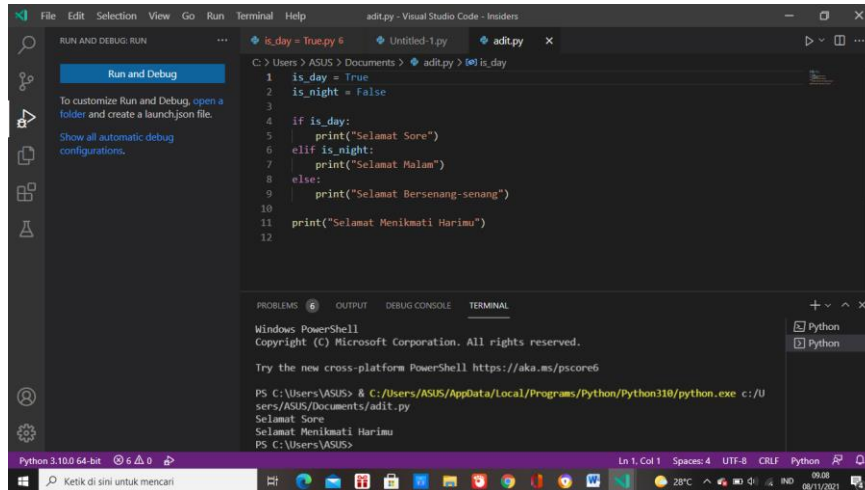


NAMA : ADITYA FA'ATHIR B.

NIM : 20.01.013.035

KELAS : AI B

1. Percabangan If



```
File Edit Selection View Go Run Terminal Help
aditya - Visual Studio Code - Insiders

RUN AND DEBUG RUN
To customize Run and Debug, open a folder and create a launch.json file.
Show all automatic debug configurations.

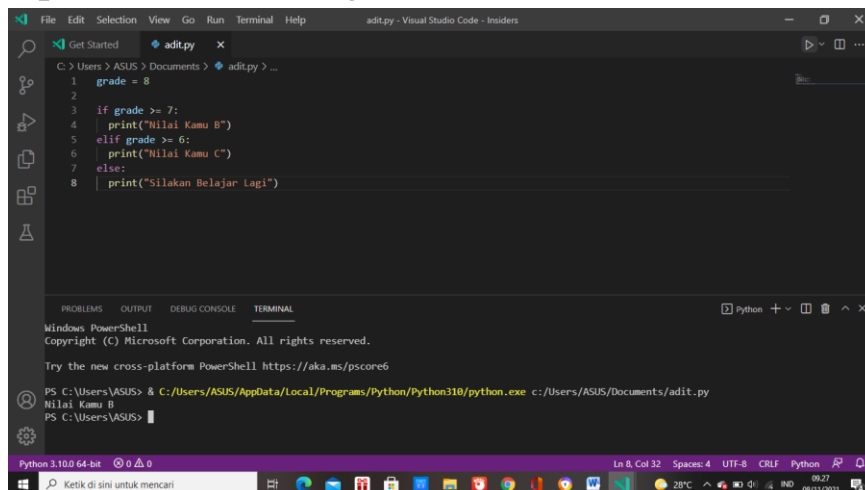
is_day = True.py 6 aditya.py x
C:\Users\ASUS\Documents> aditya.py
1 is_day = True
2 is_night = False
3
4 if is_day:
5     print("Selamat Sore")
6 elif is_night:
7     print("Selamat Malam")
8 else:
9     print("Selamat Bersenang-senang")
10
11 print("Selamat Menikmati Harimu")
12

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/U
sers/ASUS/Documents/aditya.py
Selamat Sore
Selamat Menikmati Harimu
PS C:\Users\ASUS>
```

2. Operator Perbandingan



```
File Edit Selection View Go Run Terminal Help
aditya - Visual Studio Code - Insiders

Get Started aditya.py x
C:\Users\ASUS\Documents> aditya.py
1 grade = 8
2
3 if grade >= 7:
4     print("Nilai Kamu B")
5 elif grade >= 6:
6     print("Nilai Kamu C")
7 else:
8     print("Silakan Belajar Lagi")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/aditya.py
Nilai Kamu B
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code editor with a file named `adit.py` open. The code in the editor is as follows:

```
1 grade = 5
2
3 if grade >= 7:
4     print("Nilai Kamu B")
5 elif grade >= 6:
6     print("Nilai Kamu C")
7 else:
8     print("Silakan Belajar Lagi")
```

The terminal at the bottom shows the command to run the script and its output:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Nilai Kamu B
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Nilai Kamu B
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Silakan Belajar Lagi
PS C:\Users\ASUS>
```

3. Operator Logika

The screenshot shows the Visual Studio Code editor with a file named `adit.py` open. The code in the editor is as follows:

```
1 nama = "Aditya Fa'athir B."
2
3 if len(nama) > 3:
4     print("Selamat")
5 else:
6     print("Nama Terlalu Pendek")
7
```

The terminal at the bottom shows the command to run the script and its output:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Selamat
PS C:\Users\ASUS>
```

The screenshot shows the Visual Studio Code editor with a file named `adit.py` open. The code in the editor is as follows:

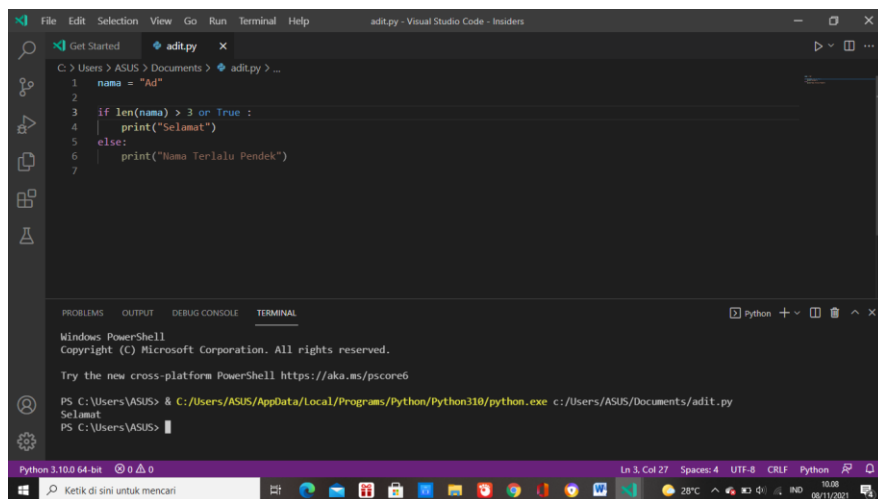
```
1 nama = "Ad"
2
3 if len(nama) > 3:
4     print("Selamat")
5 else:
6     print("Nama Terlalu Pendek")
7
```

The terminal at the bottom shows the command to run the script and its output:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Nama Terlalu Pendek
PS C:\Users\ASUS>
```



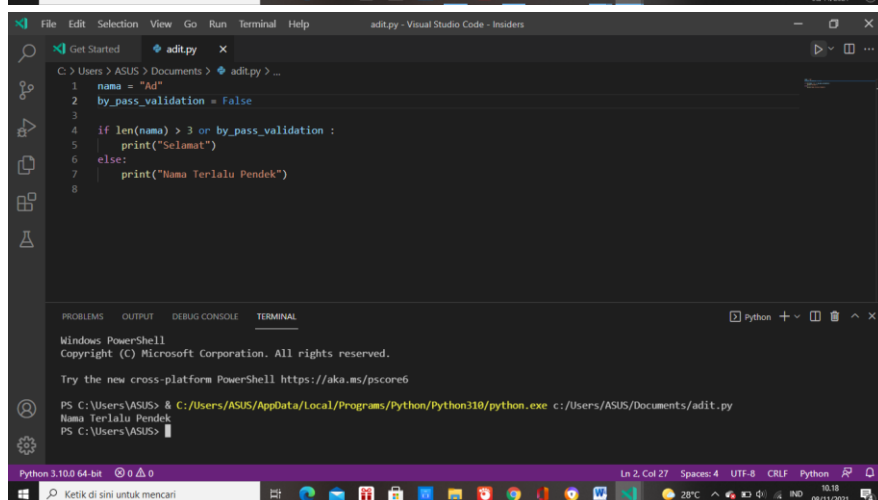
```
File Edit Selection View Go Run Terminal Help
adit.py - Visual Studio Code - Insiders

Get Started adit.py x
C:\Users\ASUS> Documents > adit.py > ...
1 nama = "Ad"
2
3 if len(nama) > 3 or True :
4     print("Selamat")
5 else:
6     print("Nama Terlalu Pendek")
7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Selamat
PS C:\Users\ASUS>
```



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

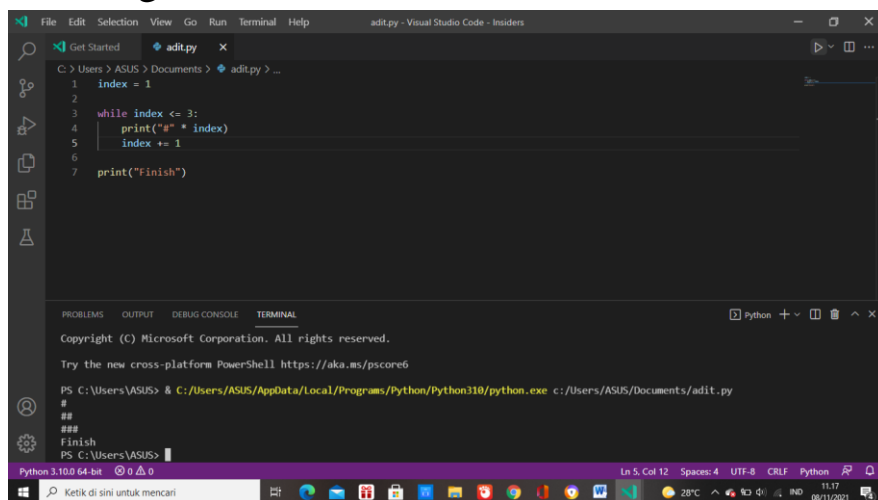
Get Started adit.py x
C:\Users\ASUS> Documents > adit.py > ...
1 nama = "Ad"
2 by_pass_validation = False
3
4 if len(nama) > 3 or by_pass_validation :
5     print("Selamat")
6 else:
7     print("Nama Terlalu Pendek")
8

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
Nama Terlalu Pendek
PS C:\Users\ASUS>
```

4. Perulangan While



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

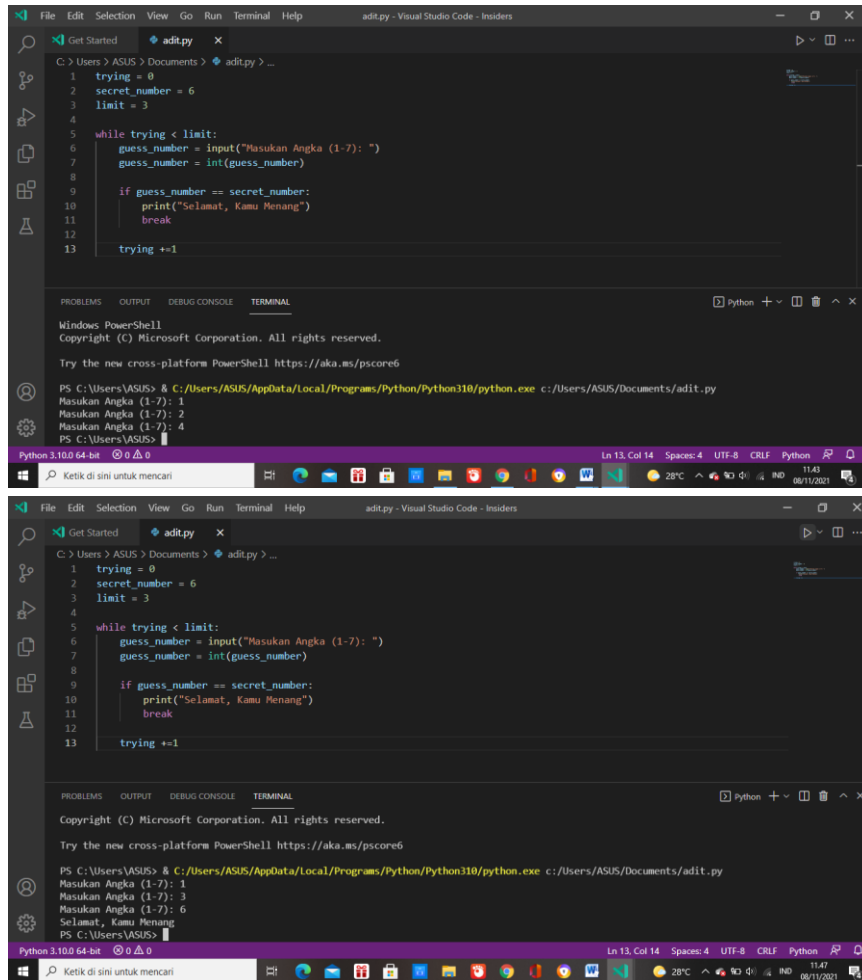
Get Started adit.py x
C:\Users\ASUS> Documents > adit.py > ...
1 index = 1
2
3 while index <= 3:
4     print("E" * index)
5     index += 1
6
7 print("Finish")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/adit.py
###
Finish
PS C:\Users\ASUS>
```

5. Game Tebak Angka



```
1 trying = 0
2 secret_number = 6
3 limit = 3
4
5 while trying < limit:
6     guess_number = input("Masukan Angka (1-7): ")
7     guess_number = int(guess_number)
8
9     if guess_number == secret_number:
10        print("Selamat, Kamu Menang")
11        break
12
13    trying +=1
```

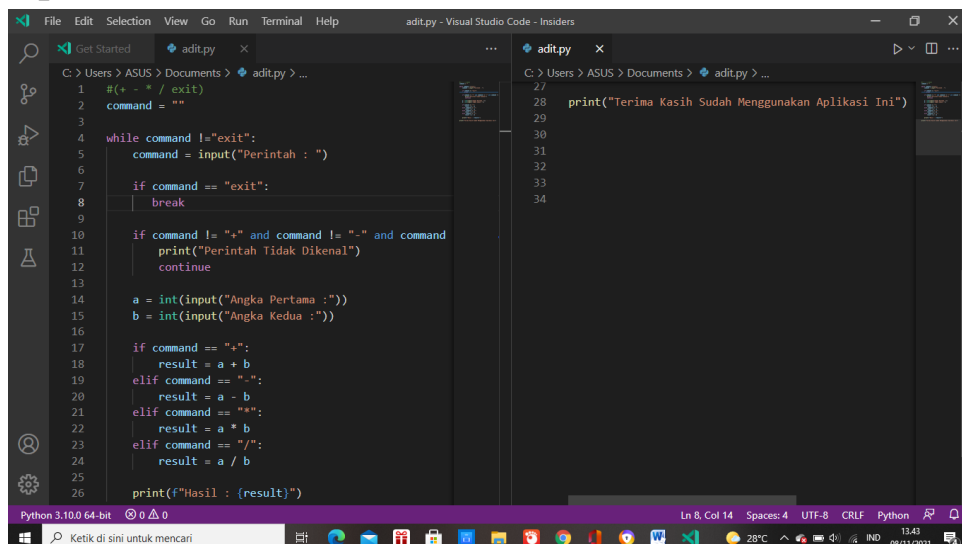
Terminal Output (First Screenshot):

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:/Users/ASUS/Documents/adit.py
Masukan Angka (1-7): 1
Masukan Angka (1-7): 2
Masukan Angka (1-7): 4
PS C:\Users\ASUS>
```

Terminal Output (Second Screenshot):

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe c:/Users/ASUS/Documents/adit.py
Masukan Angka (1-7): 1
Masukan Angka (1-7): 3
Masukan Angka (1-7): 6
Selamat, Kamu Menang
PS C:\Users\ASUS>
```

6. Aplikasi Kalkulator



```
1 #(+ - * / exit)
2 command = ""
3
4 while command != "exit":
5     command = input("Perintah : ")
6
7     if command == "exit":
8         break
9
10    if command != "+" and command != "-" and command
11        print("Perintah Tidak Dikenal")
12        continue
13
14    a = int(input("Angka Pertama :"))
15    b = int(input("Angka Kedua :"))
16
17    if command == "+":
18        result = a + b
19    elif command == "-":
20        result = a - b
21    elif command == "*":
22        result = a * b
23    elif command == "/":
24        result = a / b
25
26    print(f"Hasil : {result}")
```

Terminal Output:

```
27
28 print("Terima Kasih Sudah Menggunakan Aplikasi Ini")
29
30
31
32
33
34
```

The screenshot shows the Visual Studio Code - Insiders interface. The editor has two tabs: 'adit.py' and 'adit.py'. The first tab shows the file path 'C:\Users\ASUS> Documents > adit.py > ...' and the code `a = int(input("Angka Pertama :"))`. The second tab shows the file path 'C:\Users\ASUS> Documents > adit.py > ...' and the number '27'. The 'TERMINAL' panel is active, displaying the command prompt output for running the script: `PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/a`. The output shows the script execution with prompts for 'Angka Pertama' and 'Angka Kedua', and the resulting 'Hasil' for addition, subtraction, multiplication, and division. The terminal also shows the message 'Terima Kasih Sudah Menggunakan Aplikasi Ini' and the prompt `PS C:\Users\ASUS>`. The 'PROBLEMS' panel on the right shows 'No problems have been detected in the workspace.' The status bar at the bottom indicates 'Python 3.10.0 64-bit', 'Ln 30, Col 1', 'Spaces: 4', 'UTF-8', 'CRLF', 'Python', and the date '08/11/2021'.

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

Get Started adit.py x
C:\Users\ASUS> Documents > adit.py > ...
14 a = int(input("Angka Pertama :"))
C:\Users\ASUS> Documents > adit.py > ...
27

OUTPUT DEBUG CONSOLE TERMINAL
PYTHON + - PROBLEMS
Filter (e.g. text, **/*.ts, !**/...)
No problems have been detected in the workspace.

PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Documents/a
adit.py
Perintah : Adit
Perintah Tidak Dikenal
Perintah : +
Angka Pertama :10
Angka Kedua :2
Hasil : 12
Perintah : -
Angka Pertama :12
Angka Kedua :1
Hasil : 11
Perintah : *
Angka Pertama :3
Angka Kedua :3
Hasil : 9
Perintah : /
Angka Pertama :9
Angka Kedua :3
Hasil : 3.0
Perintah : exit
Terima Kasih Sudah Menggunakan Aplikasi Ini
PS C:\Users\ASUS>
```

Python 3.10.0 64-bit 0 0 0 Ln 30, Col 1 Spaces: 4 UTF-8 CRLF Python 08/11/2021