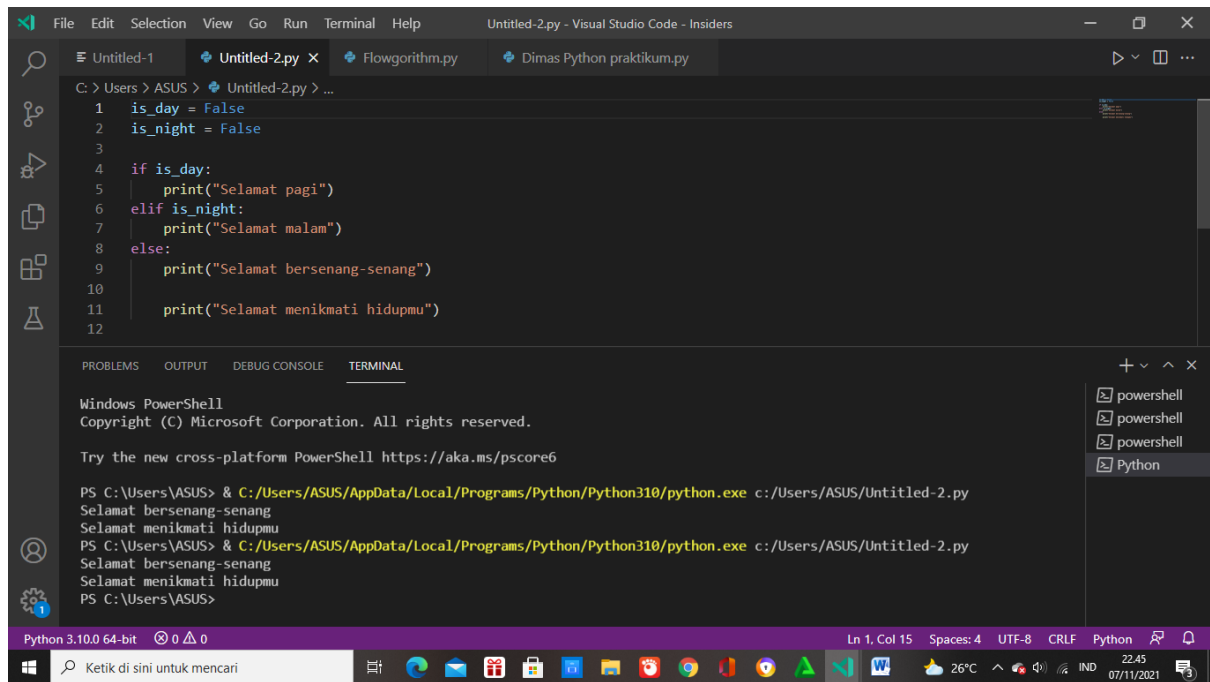
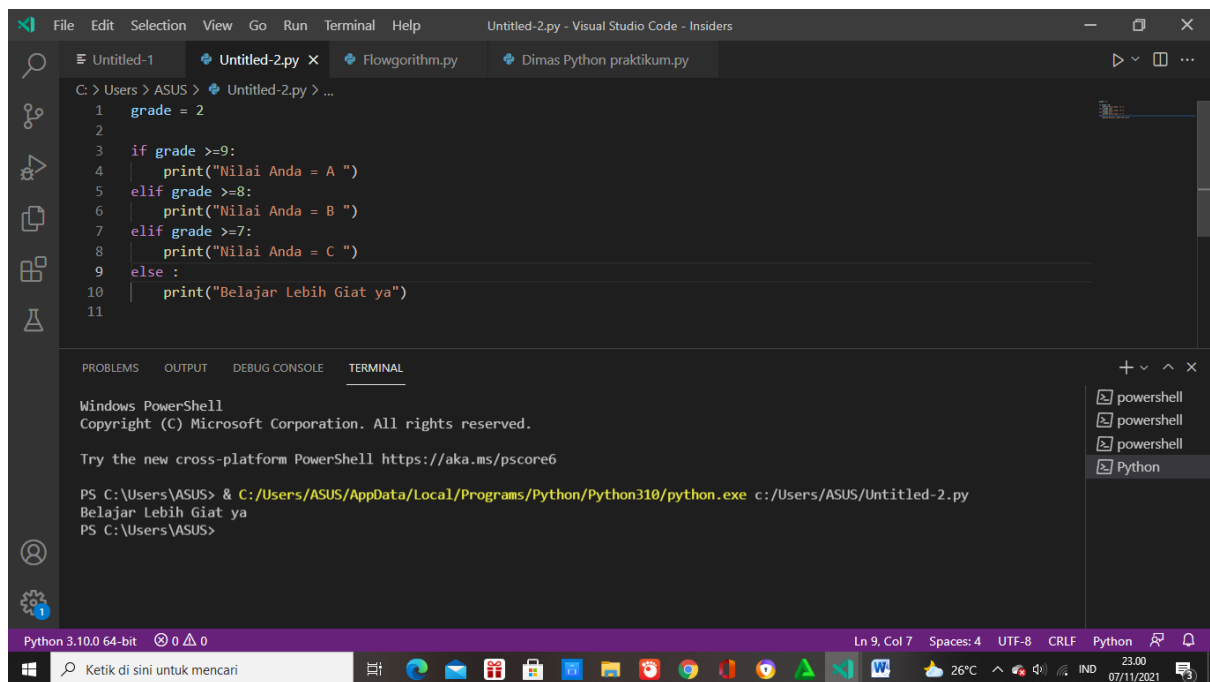


Matkul : Artificial Intelligence

1. Percabangan IF



2. Operator Perbandingan



3. Operator Logika

The image shows a Windows desktop environment. The primary focus is the Visual Studio Code (VS Code) application, which is open with three tabs: 'Untitled-1', 'Untitled-2.py' (the active tab), and 'Flowgorithm.py'. The 'Untitled-2.py' tab contains a Python script that defines a variable 'name' with the value 'Dimas Sakti Maulana' and uses an if-else statement to print a greeting. The terminal window at the bottom of VS Code shows the command to run the script, which has been executed successfully, resulting in the output 'Hallo Guys'. The Windows taskbar at the bottom of the screen displays the Start button, a search bar, and a row of application icons including Microsoft Edge, Mail, Photos, File Explorer, and several utility tools. The system tray on the right side of the taskbar shows the current date and time as 23:20 on 07/11/2021.

The screenshot displays the Visual Studio Code editor with the following components:

- Menu Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Tab Bar:** Untitled-1, **Untitled-2.py** (active), Flowgorithm.py, Dimas Python praktikum.py.
- Editor:**

```

C:\Users\ASUS> cd C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe
1  name = "Dimas"
2
3  if len(name) > 7 :
4      print("Hallo Guys")
5  else :
6      print("Nama Terlalu Pendek")
7

```
- Terminal Panel:**
 - PROBLEMS:** Empty.
 - OUTPUT:** Empty.
 - DEBUG CONSOLE:** Empty.
 - TERMINAL:**

```

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/Untitled-2.py
Nama Terlalu Pendek
PS C:\Users\ASUS>

```
- Taskbar:** Shows the taskbar with various application icons, including File Explorer, Edge, and the Python interpreter status bar at the bottom.

The screenshot shows the Visual Studio Code editor with a file named 'Untitled-2.py'. The code is a simple Python script that checks the length of a variable 'name'. If the length is greater than 7 or True, it prints 'Hallo Guys'. Otherwise, it prints 'Nama Terlalu Pendek'.

```
C: > Users > ASUS > Untitled-2.py > ...
1  name = "Dimas"
2
3  if len(name) > 7 or True:
4      print("Hallo Guys")
5  else :
6      print("Nama Terlalu Pendek")
7
```

The terminal window shows the execution of the script using the Windows PowerShell. The output is 'Hallo Guys'.

```
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/Untitled-2.py
Hallo Guys
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ASUS/Untitled-2.py
Hallo Guys
PS C:\Users\ASUS>
```

4. Perulangan While

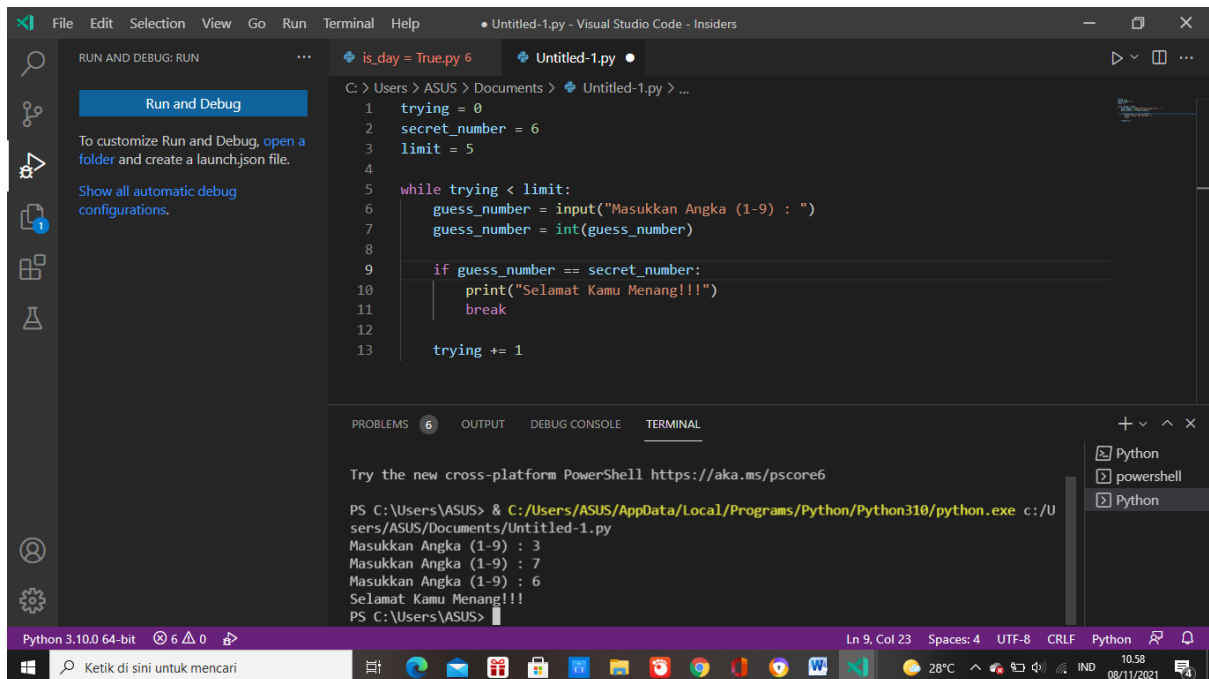
The screenshot shows the Visual Studio Code editor with a file named 'Untitled-1.py'. The code is a Python script that uses a while loop to print a series of asterisks. The loop runs as long as the variable 'index' is less than or equal to 7. The output is a series of asterisks followed by the word 'Finish'.

```
C: > Users > ASUS > Documents > Untitled-1.py > ...
1  index = 1
2
3  while index <= 7:
4      print ("*" * index)
5      index += 1
6
7  print("Finish")
```

The terminal window shows the execution of the script using the Windows PowerShell. The output is a series of asterisks followed by the word 'Finish'.

```
sers/ASUS/Documents/Untitled-1.py
*
**
***
****
*****
*****
*****
Finish
PS C:\Users\ASUS>
```

5. Game tebak angka



The screenshot shows the Visual Studio Code editor with a Python file named 'Untitled-1.py'. The code is a number guessing game. The left sidebar shows the 'Run and Debug' panel. The bottom status bar indicates 'Python 3.10.0 64-bit'.

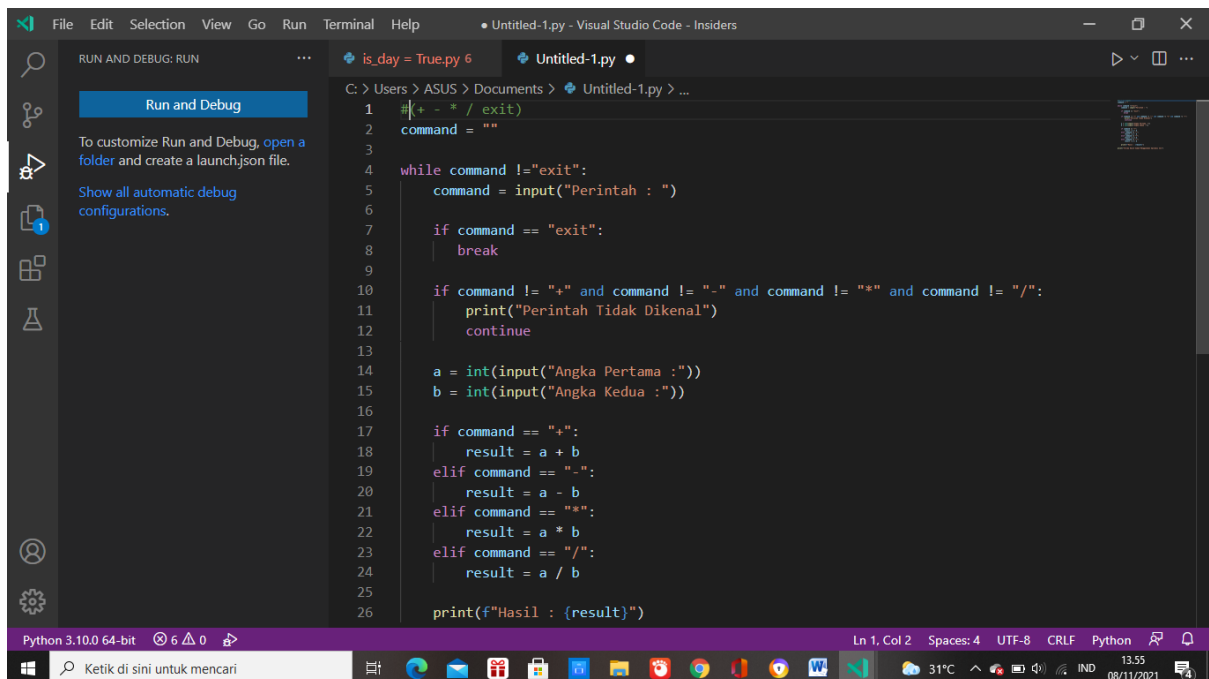
```
1  trying = 0
2  secret_number = 6
3  limit = 5
4
5  while trying < limit:
6      guess_number = input("Masukkan Angka (1-9) : ")
7      guess_number = int(guess_number)
8
9      if guess_number == secret_number:
10         print("Selamat Kamu Menang!!!")
11         break
12
13     trying += 1
```

The terminal output shows the execution of the script:

```
PS C:\Users\ASUS> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe c:/U
sers/ASUS/Documents/Untitled-1.py
Masukkan Angka (1-9) : 3
Masukkan Angka (1-9) : 7
Masukkan Angka (1-9) : 6
Selamat Kamu Menang!!!
PS C:\Users\ASUS>
```

6. Aplikasi Kalkulator

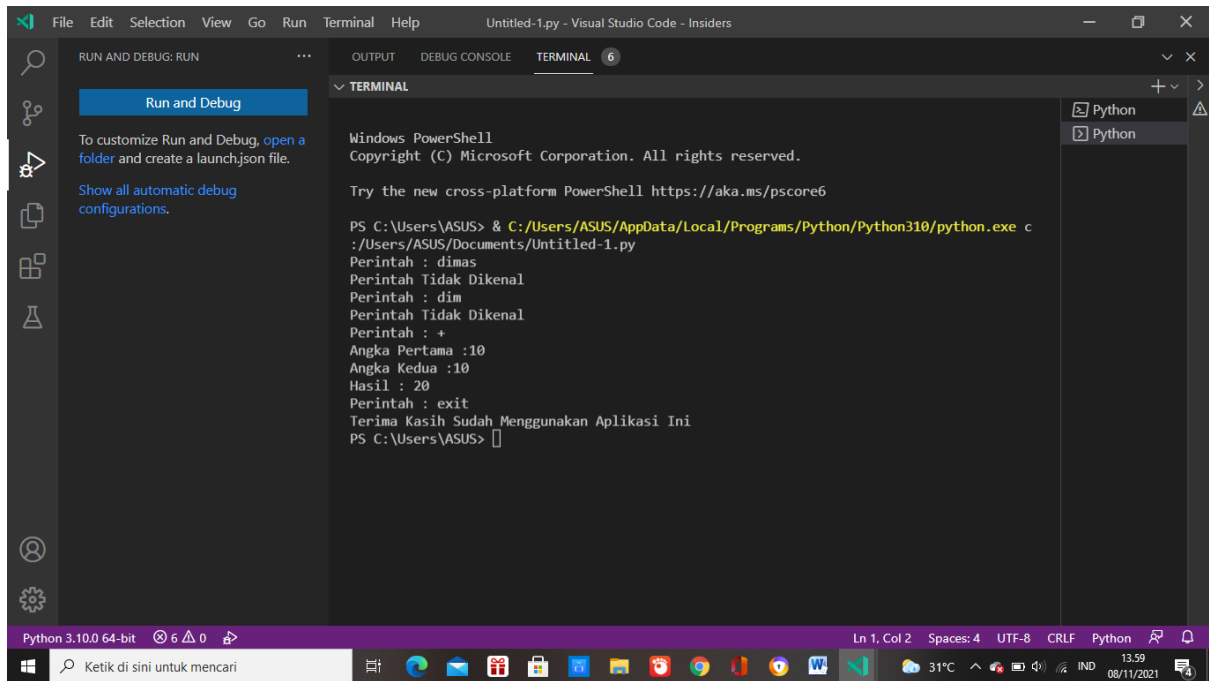
Input



The screenshot shows the Visual Studio Code editor with a Python file named 'Untitled-1.py'. The code is a calculator application. The left sidebar shows the 'Run and Debug' panel. The bottom status bar indicates 'Python 3.10.0 64-bit'.

```
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 != "*" 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}")
```

Output



The screenshot shows the Visual Studio Code interface with the 'TERMINAL' panel active. The terminal displays the output of a PowerShell command that runs a Python script. The script prompts for two numbers and calculates their sum.

```
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/Untitled-1.py
Perintah : dimas
Perintah Tidak Dikenal
Perintah : dim
Perintah Tidak Dikenal
Perintah : +
Angka Pertama :10
Angka Kedua :10
Hasil : 20
Perintah : exit
Terima Kasih Sudah Menggunakan Aplikasi Ini
PS C:\Users\ASUS>
```

The status bar at the bottom indicates the file is 'Untitled-1.py', the language is 'Python', and the Python version is 'Python 3.10.0 64-bit'. The taskbar at the very bottom shows the Windows search bar and various application icons.