

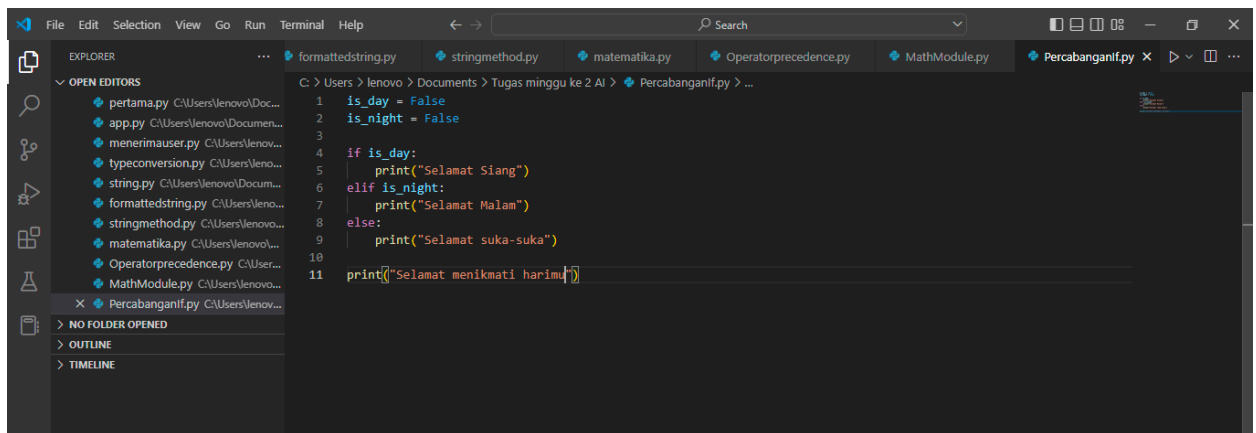
NAMA : FIRZA MAULANA

NIM : 211001038

KELAS : D/KECERDASAN BUATAN

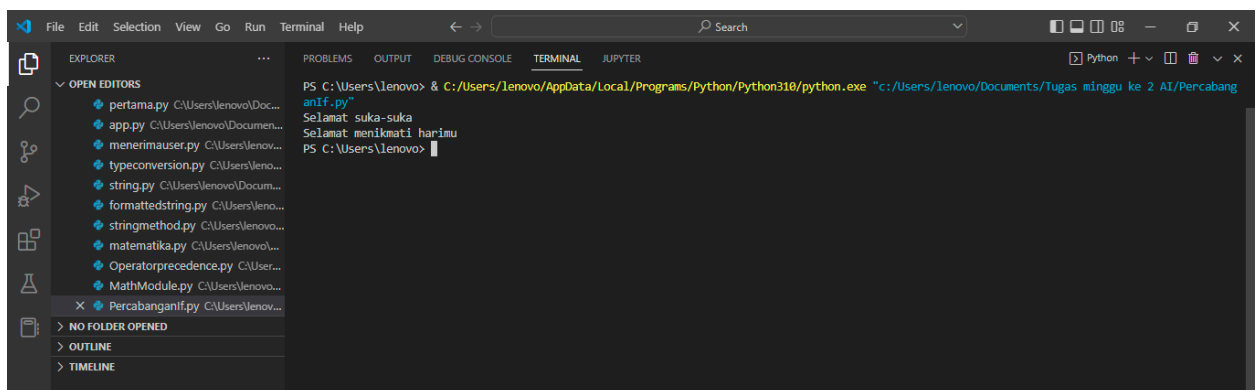
- Percabangan If

Contoh dalam vs 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")
```

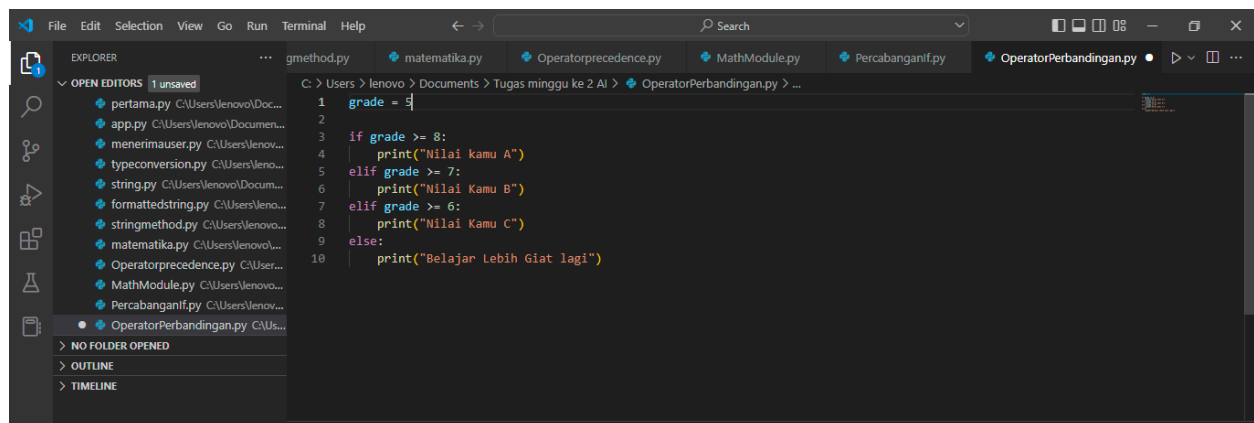
Run VS CODE



```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas minggu ke 2 AI/Percabanganif.py"
Selamat suka-suka
Selamat menikmati harimu
PS C:\Users\lenovo>
```

- Operator Perbandingan

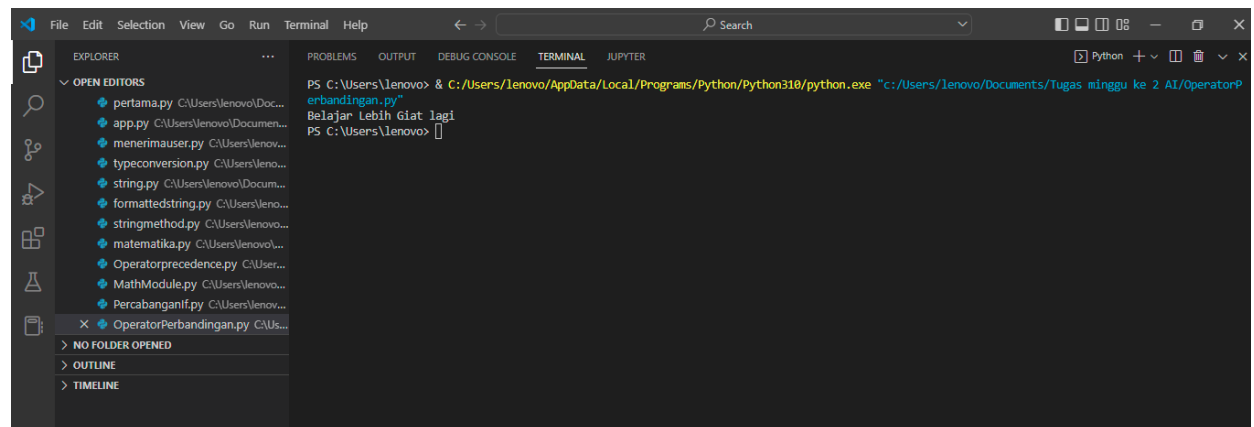
Contoh dalam VS CODE



The screenshot shows the Visual Studio Code interface with a Python file named 'OperatorPerbandingan.py' open. The code defines a variable 'grade' with the value 5 and uses conditional statements to print different messages based on the value of 'grade'.

```
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("Belajar Lebih Giat lagi")
```

Run VS CODE

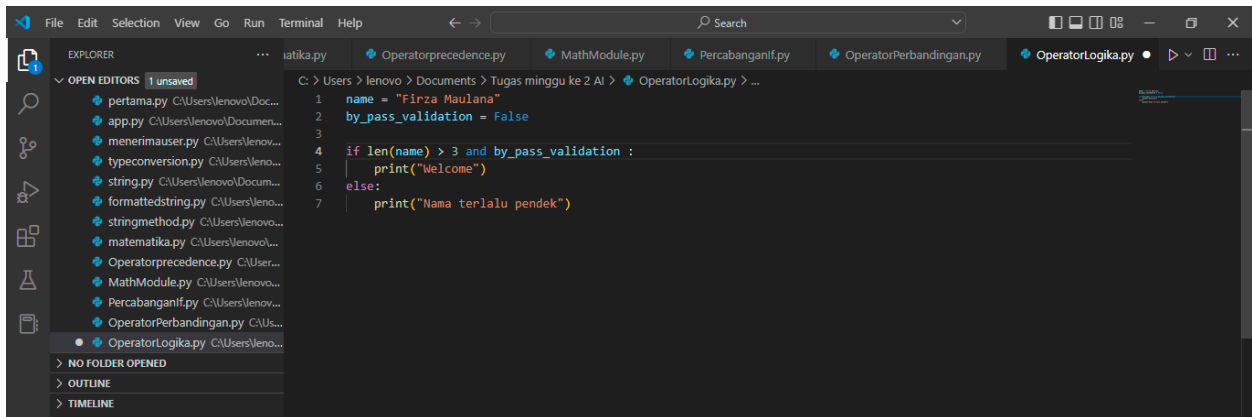


The screenshot shows the Visual Studio Code interface with the 'Terminal' panel open. The terminal displays the command to run the Python script and the output, which matches the code in the previous screenshot.

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas_minggu ke 2 AI/OperatorPerbandingan.py"
Belajar Lebih Giat lagi
PS C:\Users\lenovo>
```

- Operator Logika

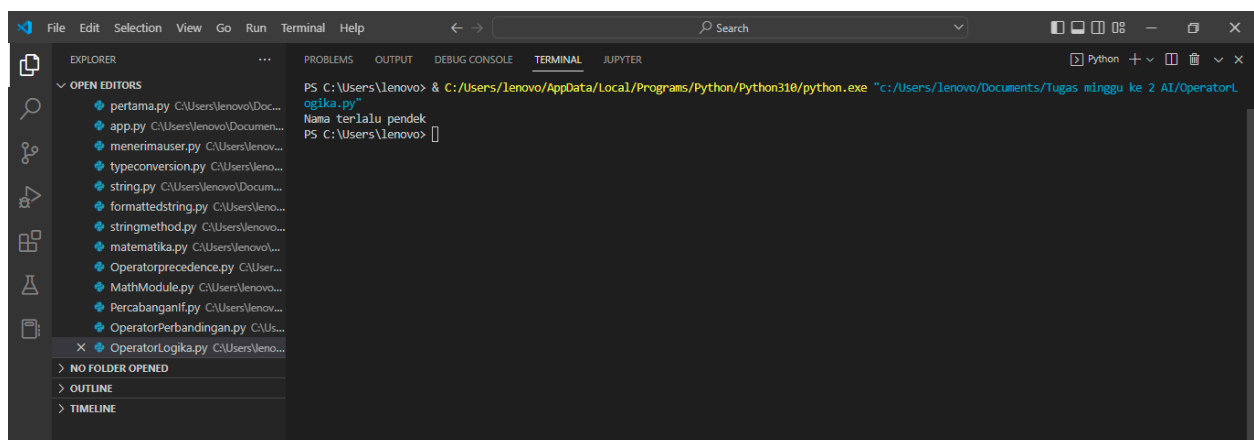
Contoh dalam VS CODE



The screenshot shows the Visual Studio Code interface with a Python file named `OperatorLogika.py` open. The code defines a variable `name` as "Firza Maulana" and a boolean `by_pass_validation` as `False`. It then uses an `if` statement with a logical `and` operator to check if the length of `name` is greater than 3 and if `by_pass_validation` is `True`. If both conditions are met, it prints "Welcome"; otherwise, it prints "Nama terlalu pendek".

```
1 name = "Firza Maulana"
2 by_pass_validation = False
3
4 if len(name) > 3 and by_pass_validation :
5     print("Welcome")
6 else:
7     print("Nama terlalu pendek")
```

Run VS CODE

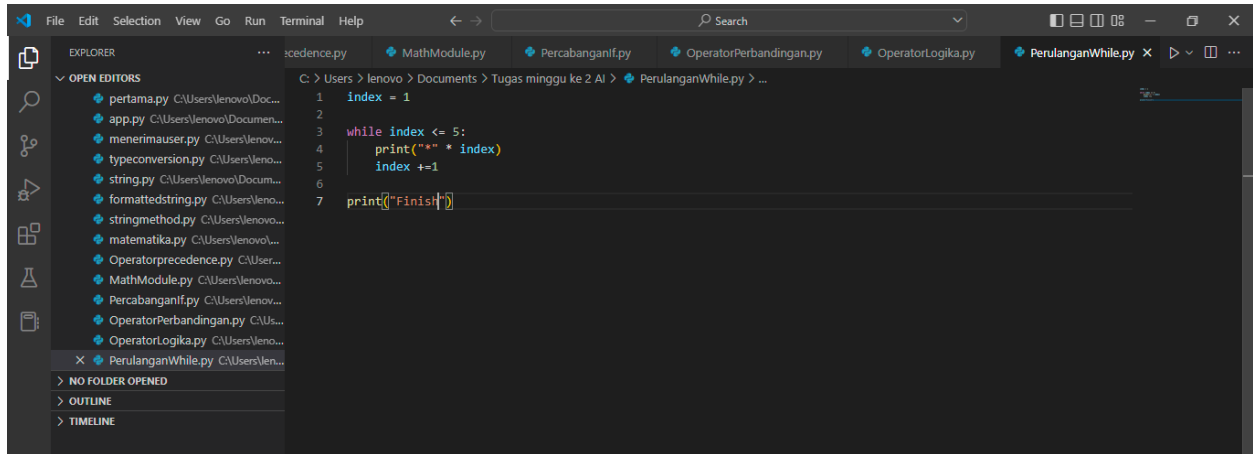


The screenshot shows the Visual Studio Code interface with the `Terminal` panel open. The terminal displays the command to run the script and its output. The command is `PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas minggu ke 2 AI/OperatorLogika.py"`. The output shows the message "Nama terlalu pendek" followed by a prompt `PS C:\Users\lenovo>`.

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas minggu ke 2 AI/OperatorLogika.py"
Nama terlalu pendek
PS C:\Users\lenovo>
```

- Perulangan While

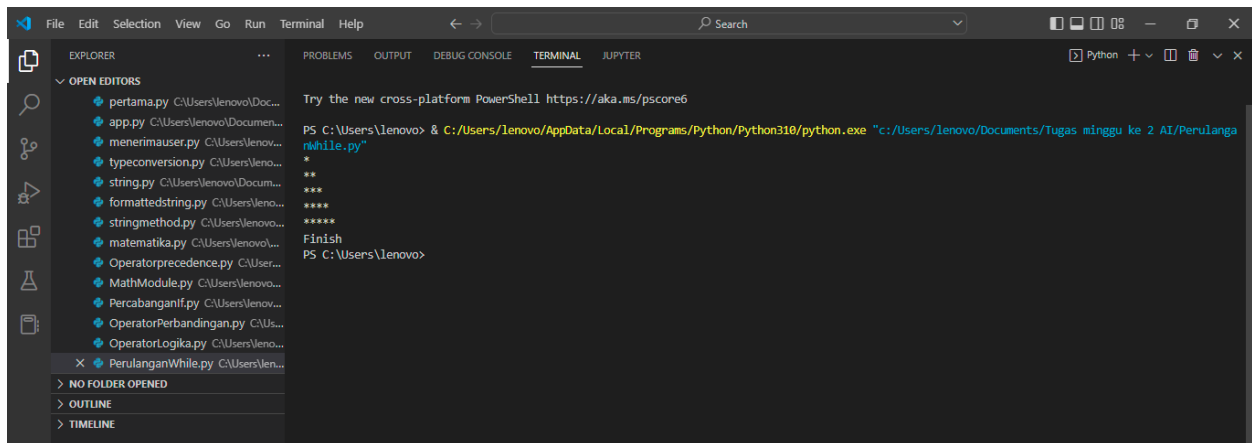
Contoh dalam VS CODE



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files. The main editor window displays the file 'PerulanganWhile.py' with the following code:

```
C:\Users\lenovo\Documents> Tugas minggu ke 2 AI > PerulanganWhile.py > ...  
1 index = 1  
2  
3 while index <= 5:  
4     print("*" * index)  
5     index += 1  
6  
7 print("Finish")
```

Run VS CODE

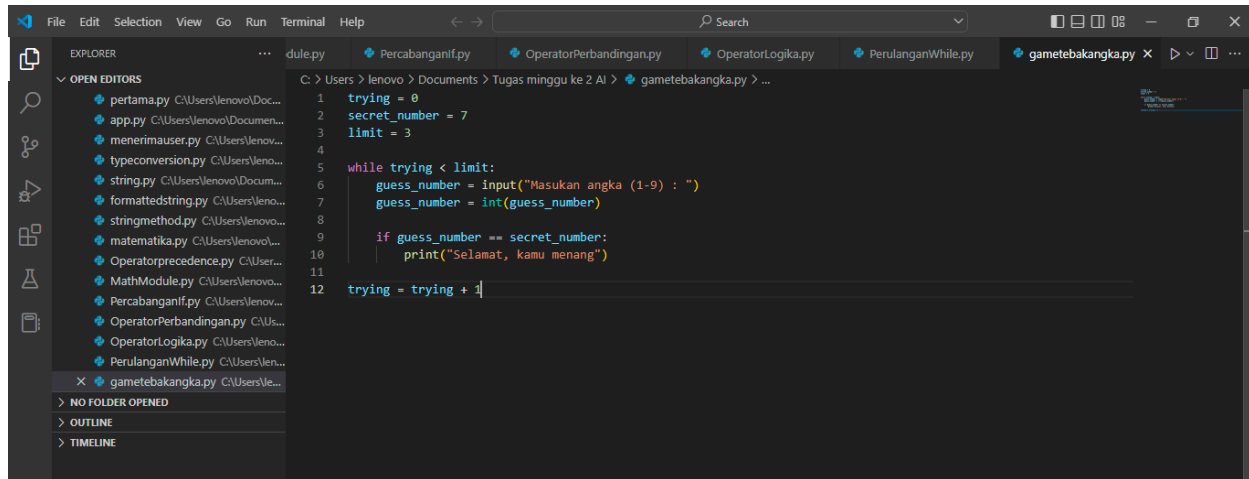


The screenshot shows the Visual Studio Code interface with the Terminal panel open. The terminal displays the command to run the Python script and its output:

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas minggu ke 2 AI/PerulanganWhile.py"  
*  
**  
***  
****  
*****  
Finish  
PS C:\Users\lenovo>
```

- Game Tebak Angka

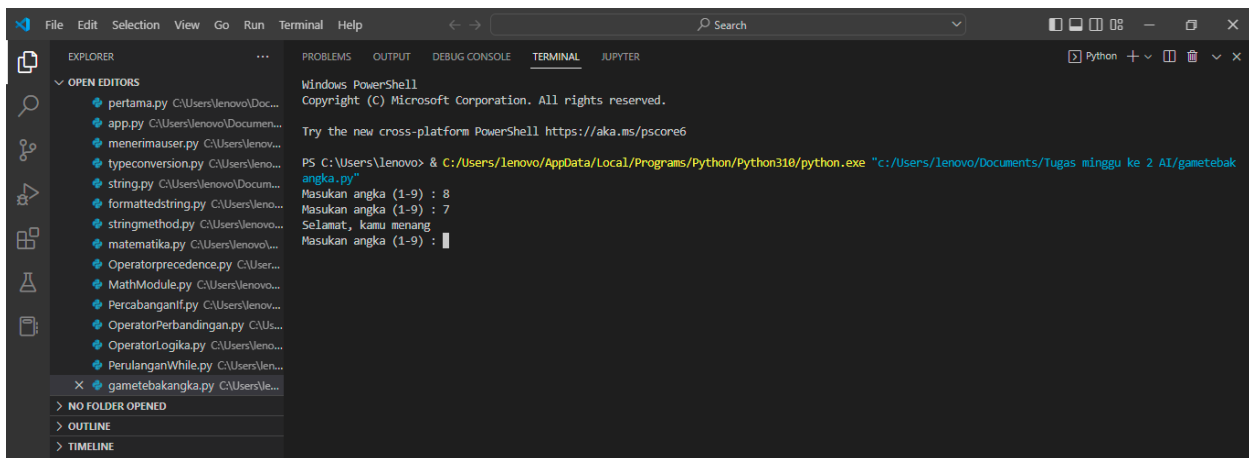
Contoh dalam VS CODE



The screenshot shows the Visual Studio Code interface with the Explorer sidebar on the left displaying a list of Python files. The main editor area shows the code for 'gametebakangka.py' located at 'C:\Users\lenovo\Documents> Tugas minggu ke 2 AI > gametebakangka.py > ...'. The code is as follows:

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

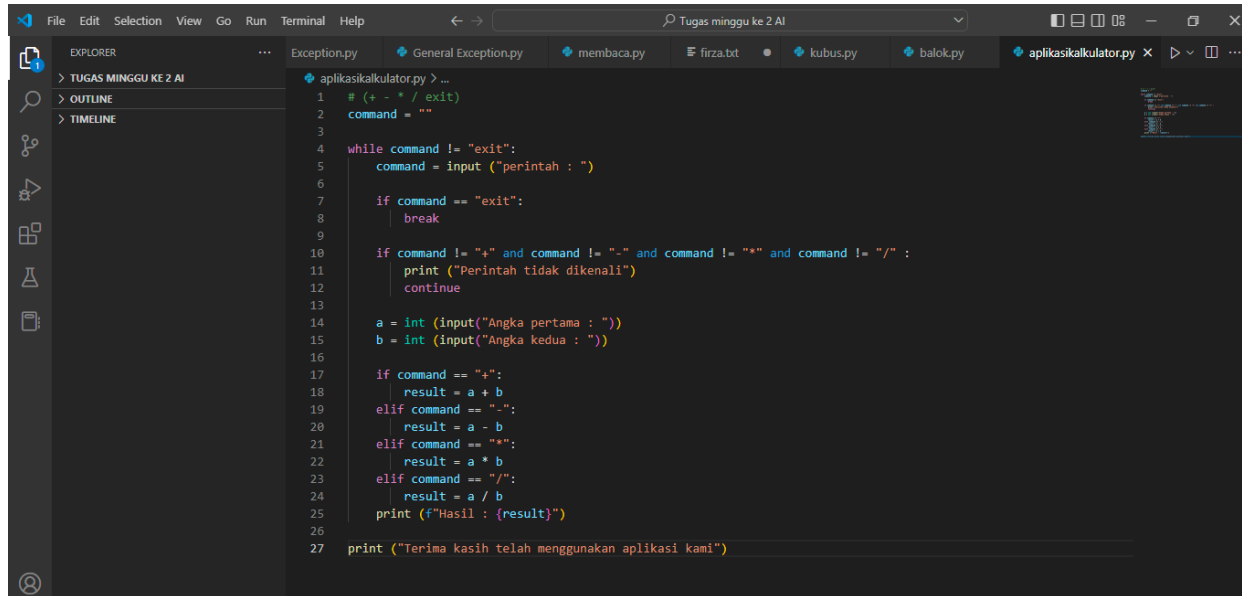
Run VS CODE



The screenshot shows the Visual Studio Code interface with the Terminal panel at the bottom. The terminal is running a Windows PowerShell session. The command executed is 'PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/Tugas minggu ke 2 AI/gametebakangka.py"'. The output of the script is as follows:

```
Masukan angka (1-9) : 8
Masukan angka (1-9) : 7
Selamat, kamu menang
Masukan angka (1-9) : █
```

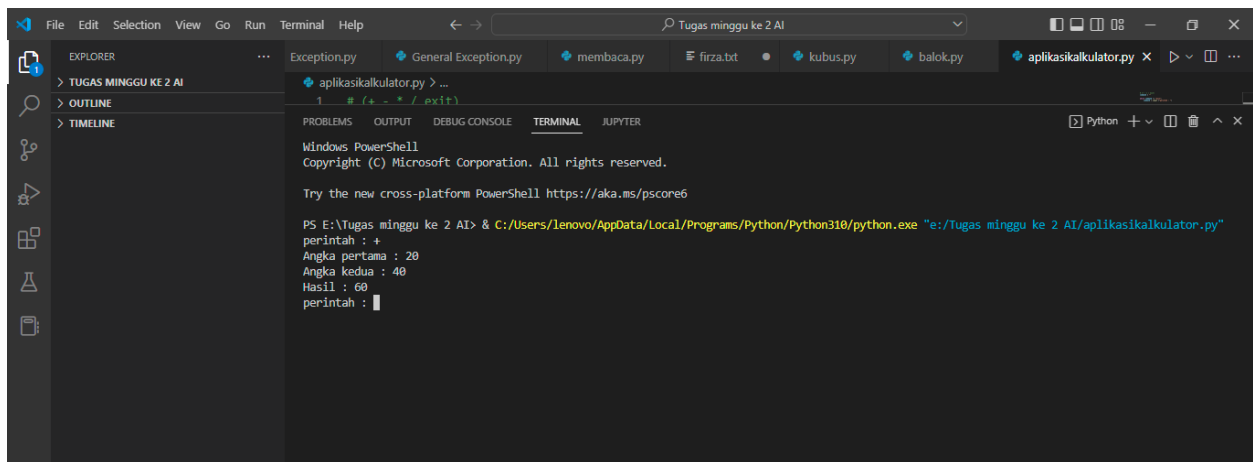
- Aplikasi kalkulator



The screenshot shows the Visual Studio Code editor with a Python file named `aplikasikalkulator.py` open. The code is a simple calculator application that takes two numbers and an operator as input and performs the corresponding arithmetic operation. The code is as follows:

```
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 dikenali")
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    print (f"Hasil : {result}")
26
27 print ("Terima kasih telah menggunakan aplikasi kami")
```

Run vs code



The screenshot shows the Visual Studio Code editor with the same Python file `aplikasikalkulator.py` open. The terminal window is active, showing the output of the program. The user has entered the command `perintah : +`, the first number `Angka pertama : 20`, and the second number `Angka kedua : 40`. The program has calculated the result `Hasil : 60` and is waiting for the next command. The terminal output is as follows:

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

PS E:\Tugas minggu ke 2 AI> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "e:/Tugas minggu ke 2 AI/aplikasikalkulator.py"
perintah : +
Angka pertama : 20
Angka kedua : 40
Hasil : 60
perintah :
```