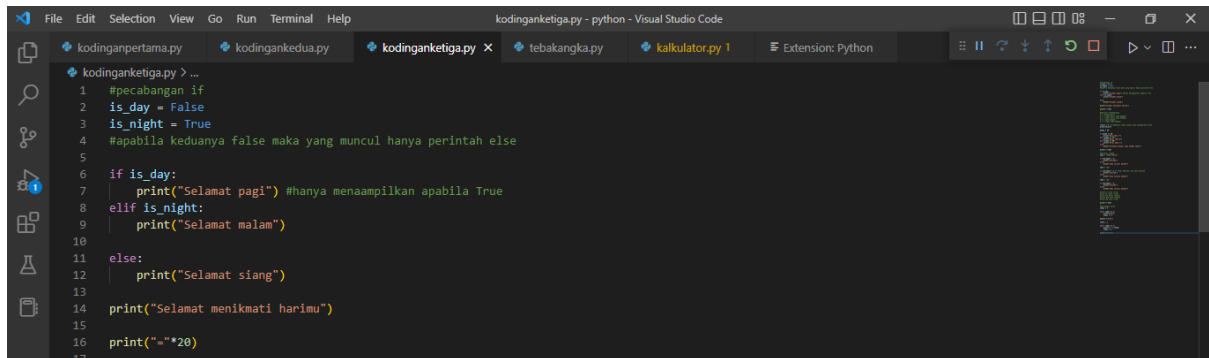


NAMA : RIKA SAFIRA

NIM : 19.01.013.125

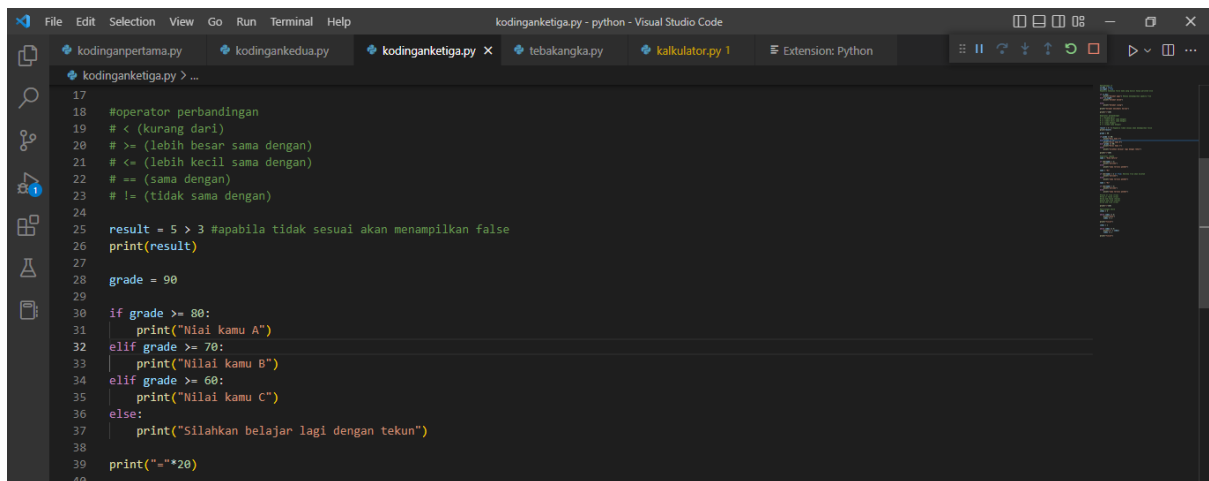
TUTORIALPYTHON 3

➤ Percabangan if



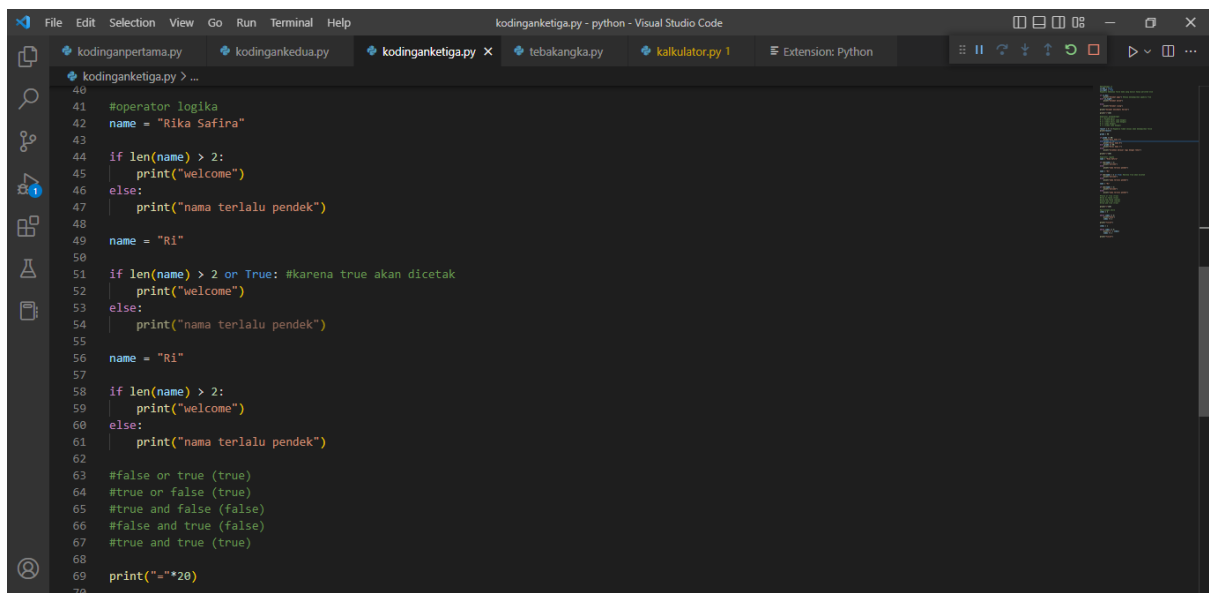
```
File Edit Selection View Go Run Terminal Help
kodinganketiga.py - python - Visual Studio Code
kodinganpertama.py kodingankedua.py kodinganketiga.py x tebakangka.py kalkulator.py 1 Extension: Python
kodinganketiga.py > ...
1 #percabangan if
2 is_day = False
3 is_night = True
4 #apabila keduanya false maka yang muncul hanya perintah else
5
6 if is_day:
7     print("Selamat pagi") #hanya menampilkkan apabila True
8 elif is_night:
9     print("Selamat malam")
10
11 else:
12     print("Selamat siang")
13
14 print("Selamat menikmati harimu")
15
16 print("-"*20)
17
```

➤ Operator Perbandingan



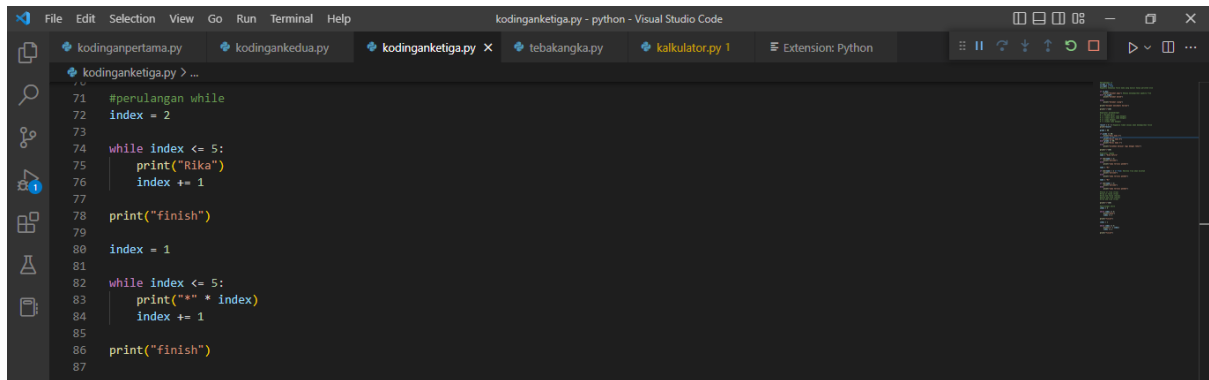
```
File Edit Selection View Go Run Terminal Help
kodinganketiga.py - python - Visual Studio Code
kodinganpertama.py kodingankedua.py kodinganketiga.py x tebakangka.py kalkulator.py 1 Extension: Python
kodinganketiga.py > ...
17
18 #operator perbandingan
19 # < (kurang dari)
20 # > (lebih besar sama dengan)
21 # <= (lebih kecil sama dengan)
22 # == (sama dengan)
23 # != (tidak sama dengan)
24
25 result = 5 > 3 #apabila tidak sesuai akan menampilkan false
26 print(result)
27
28 grade = 90
29
30 if grade >= 80:
31     print("Nilai kamu A")
32 elif grade >= 70:
33     print("Nilai kamu B")
34 elif grade >= 60:
35     print("Nilai kamu C")
36 else:
37     print("Silahkan belajar lagi dengan tekun")
38
39 print("-"*20)
40
```

➤ Operator Logika



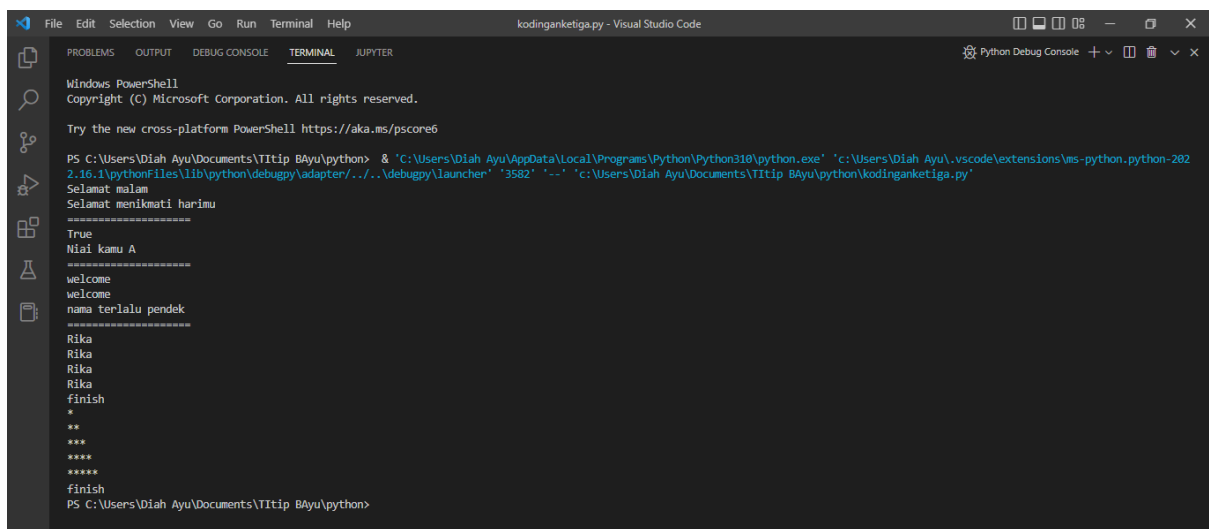
```
File Edit Selection View Go Run Terminal Help
kodinganketiga.py - python - Visual Studio Code
kodinganpertama.py kodingankedua.py kodinganketiga.py x tebakangka.py kalkulator.py 1 Extension: Python
kodinganketiga.py > ...
40
41 #operator logika
42 name = "Rika Safira"
43
44 if len(name) > 2:
45     print("welcome")
46 else:
47     print("nama terlalu pendek")
48
49 name = "Ri"
50
51 if len(name) > 2 or True: #karena true akan dicetak
52     print("welcome")
53 else:
54     print("nama terlalu pendek")
55
56 name = "Ri"
57
58 if len(name) > 2:
59     print("welcome")
60 else:
61     print("nama terlalu pendek")
62
63 #false or true (true)
64 #true or false (true)
65 #true and false (false)
66 #false and true (false)
67 #true and true (true)
68
69 print("-"*20)
70
```

➤ Perulangan While



```
71 #perulangan while
72 index = 2
73
74 while index <= 5:
75     print("Rika")
76     index += 1
77
78 print("finish")
79
80 index = 1
81
82 while index <= 5:
83     print("*** * index")
84     index += 1
85
86 print("finish")
87
```

➤ Hasil dari keempat tampilan source code diatas

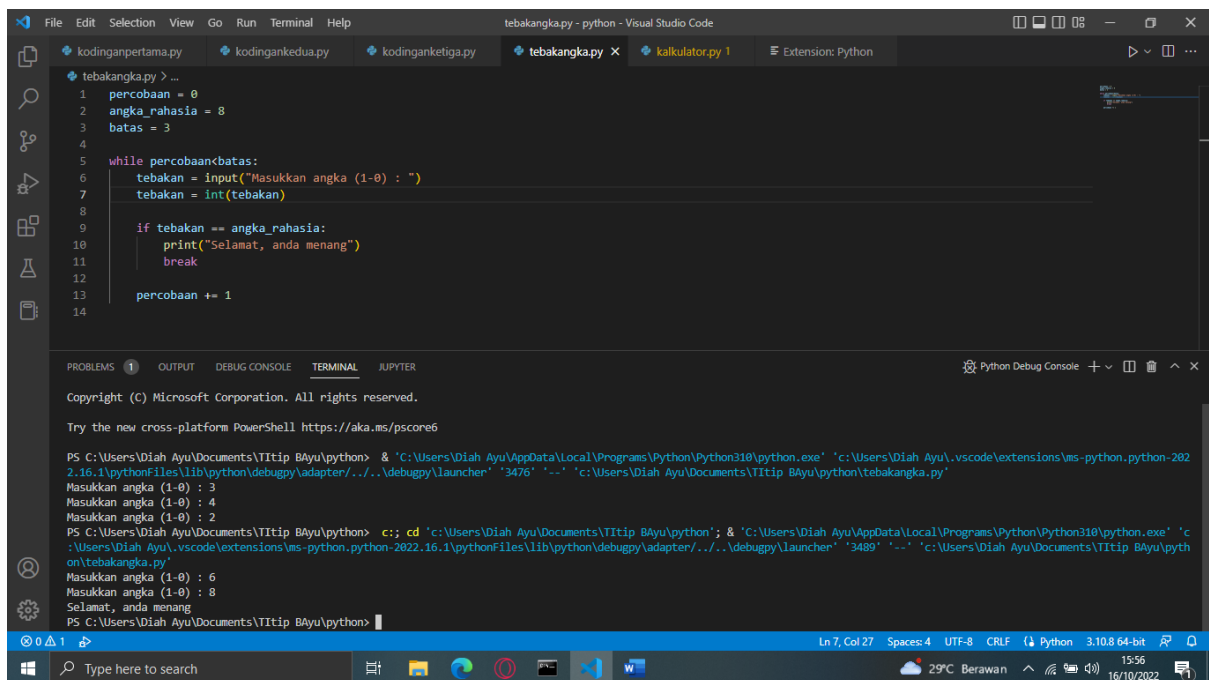


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\Diah Ayu\Documents\TITip BAyu\python> & 'C:\Users\Diah Ayu\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Diah Ayu\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '3582' '--' 'c:\Users\Diah Ayu\Documents\TITip BAyu\python\kodinganketiga.py'
Selamat malam
Selamat menikmati harimu
=====
True
Niai kamu A
=====
welcome
welcome
nama terlalu pendek
=====
Rika
Rika
Rika
Rika
Rika
finish
*
**
***
****
*****
finish
PS C:\Users\Diah Ayu\Documents\TITip BAyu\python>
```

➤ Game tebak gambar



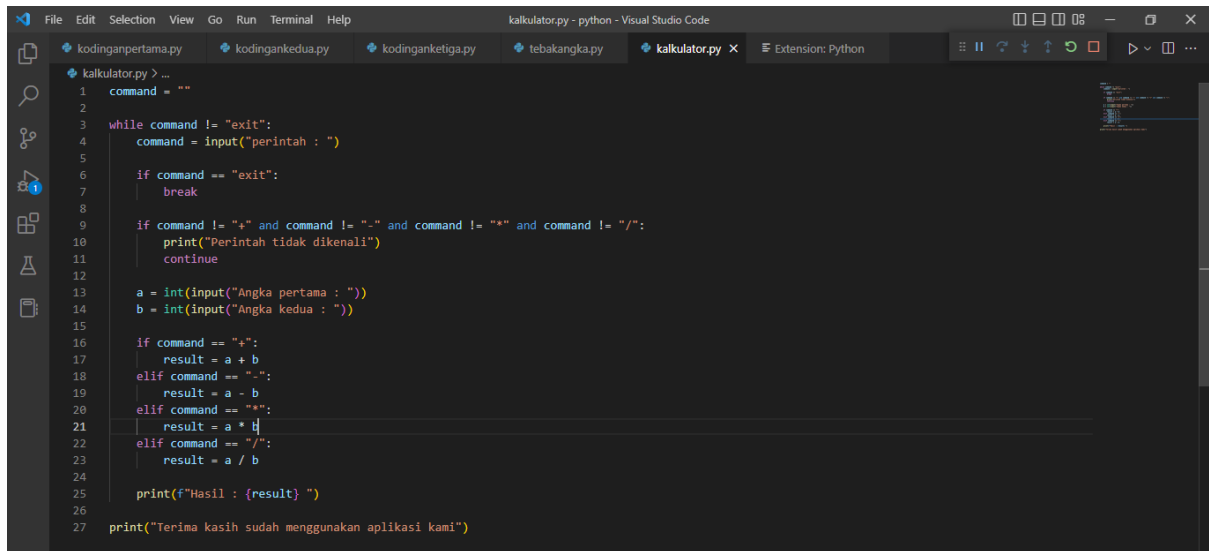
```
1 percobaan = 0
2 angka_rahasia = 8
3 batas = 3
4
5 while percobaan < batas:
6     tebakan = input("Masukkan angka (1-0) : ")
7     tebakan = int(tebakan)
8
9     if tebakan == angka_rahasia:
10        print("Selamat, anda menang")
11        break
12
13    percobaan += 1
14
```

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

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

PS C:\Users\Diah Ayu\Documents\TITip BAyu\python> & 'C:\Users\Diah Ayu\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Diah Ayu\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '3476' '--' 'c:\Users\Diah Ayu\Documents\TITip BAyu\python\tebakangka.py'
Masukkan angka (1-0) : 3
Masukkan angka (1-0) : 4
Masukkan angka (1-0) : 2
PS C:\Users\Diah Ayu\Documents\TITip BAyu\python> c++ cd 'c:\Users\Diah Ayu\Documents\TITip BAyu\python'; & 'C:\Users\Diah Ayu\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Diah Ayu\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '3489' '--' 'c:\Users\Diah Ayu\Documents\TITip BAyu\python\tebakangka.py'
Masukkan angka (1-0) : 6
Masukkan angka (1-0) : 8
Selamat, anda menang
PS C:\Users\Diah Ayu\Documents\TITip BAyu\python>
```

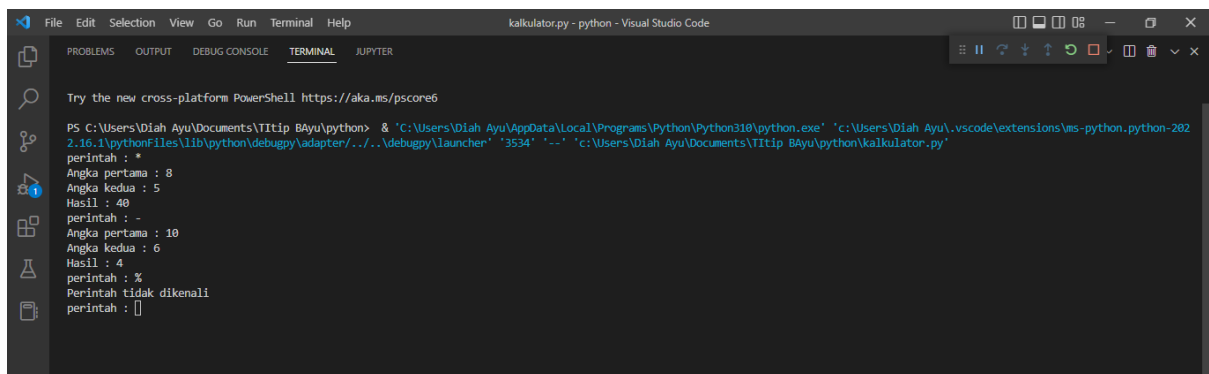
➤ Aplikasi Kalkulator



The screenshot shows the Visual Studio Code editor with the file `kalkulator.py` open. The code is a Python script for a simple calculator. It uses a `while` loop to keep running until the user enters `exit`. It handles addition, subtraction, multiplication, and division, and also includes error handling for unrecognized commands.

```
1  command = ""
2
3  while command != "exit":
4      command = input("perintah : ")
5
6      if command == "exit":
7          break
8
9      if command != "+" and command != "-" and command != "*" and command != "/":
10         print("Perintah tidak dikenali")
11         continue
12
13     a = int(input("Angka pertama : "))
14     b = int(input("Angka kedua : "))
15
16     if command == "+":
17         result = a + b
18     elif command == "-":
19         result = a - b
20     elif command == "*":
21         result = a * b
22     elif command == "/":
23         result = a / b
24
25     print(f"Hasil : {result}")
26
27 print("Terima kasih sudah menggunakan aplikasi kami")
```

➤ Hasil



The screenshot shows the terminal window in Visual Studio Code. It displays the command used to run the script and the output of the program. The user enters various commands and numbers, and the program outputs the results of the calculations or error messages.

```
PS C:\Users\Diah Ayu\Documents\TITip BAyu\python> & 'C:\Users\Diah Ayu\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Diah Ayu\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '3534' '-...' 'c:\Users\Diah Ayu\Documents\TITip BAyu\python\kalkulator.py'
perintah : *
Angka pertama : 8
Angka kedua : 5
Hasil : 40
perintah : -
Angka pertama : 10
Angka kedua : 6
Hasil : 4
perintah : %
Perintah tidak dikenali
perintah : []
```