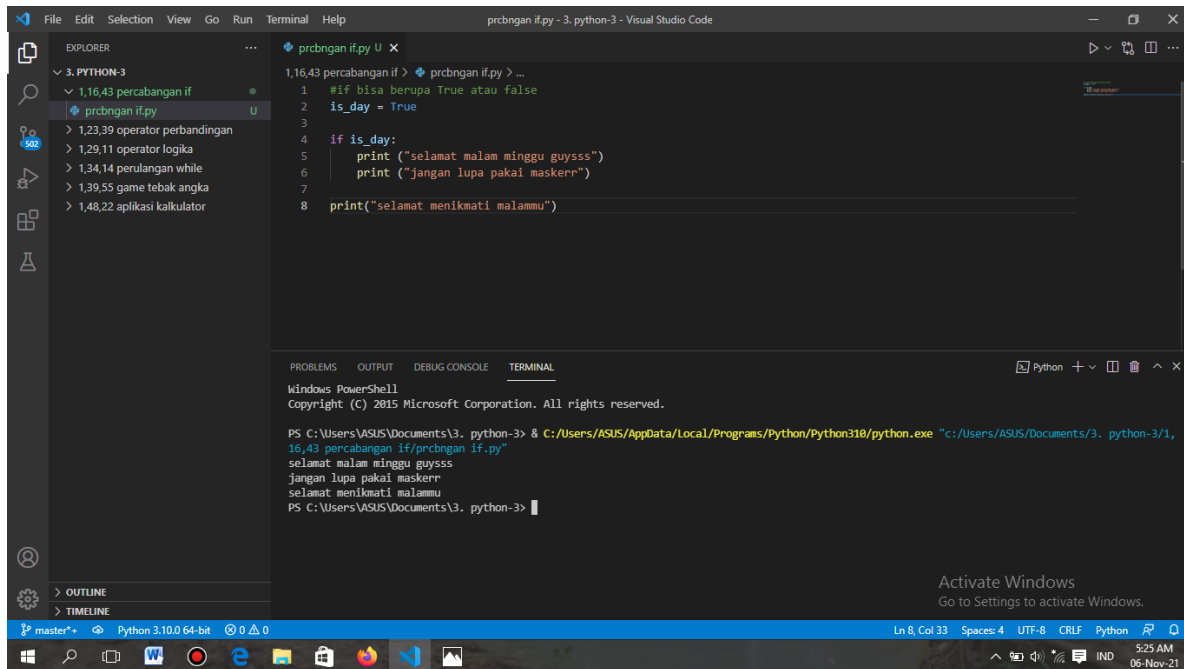


Nama : zakiyah

Nim : 20.01.013.030

Kelas : AI b

## 1. Percabangan if



The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project named '3. PYTHON-3' with a file 'prcbngan if.py' selected. The Editor pane displays the following Python code:

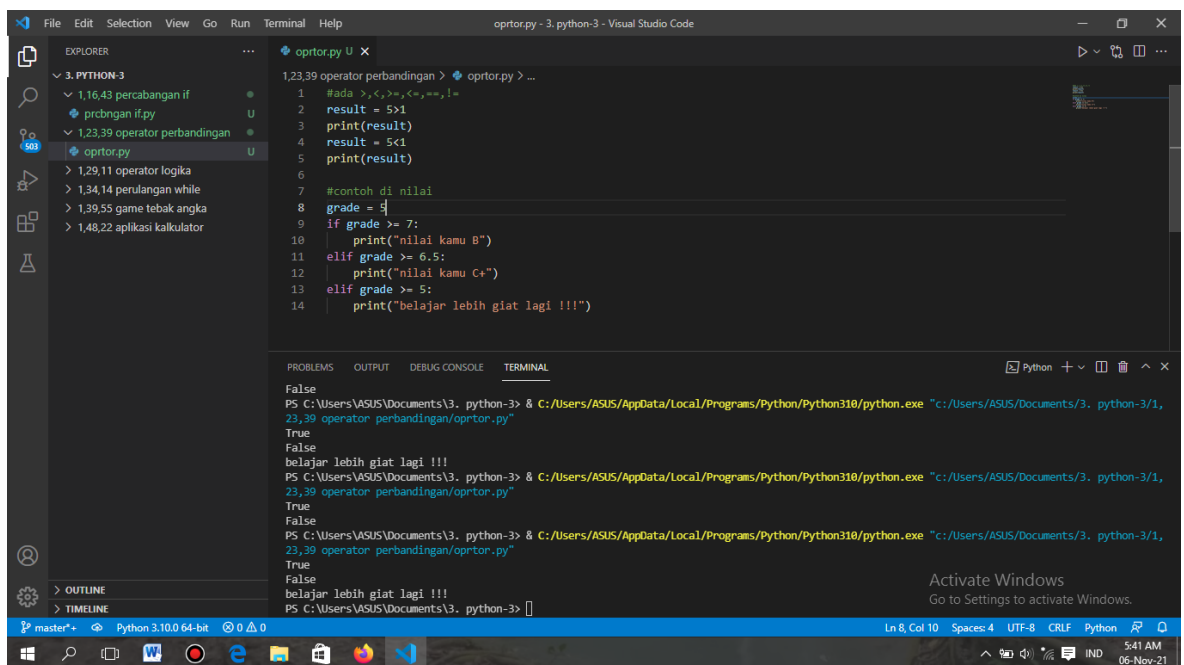
```
1,16,43 percabangan if > prcbngan if.py > ...
1 #if bisa berupa True atau false
2 is_day = True
3
4 if is_day:
5     print ("selamat malam minggu guyyss")
6     print ("jangan lupa pakai maskerr")
7
8 print("selamat menikmati malammu")
```

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

```
Windows PowerShell
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

PS C:\Users\ASUS\Documents\3. python-3> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/3. python-3/1,16,43 percabangan if/prcbngan if.py"
selamat malam minggu guyyss
jangan lupa pakai maskerr
selamat menikmati malammu
PS C:\Users\ASUS\Documents\3. python-3> |
```

## 2. Operator perbandingan



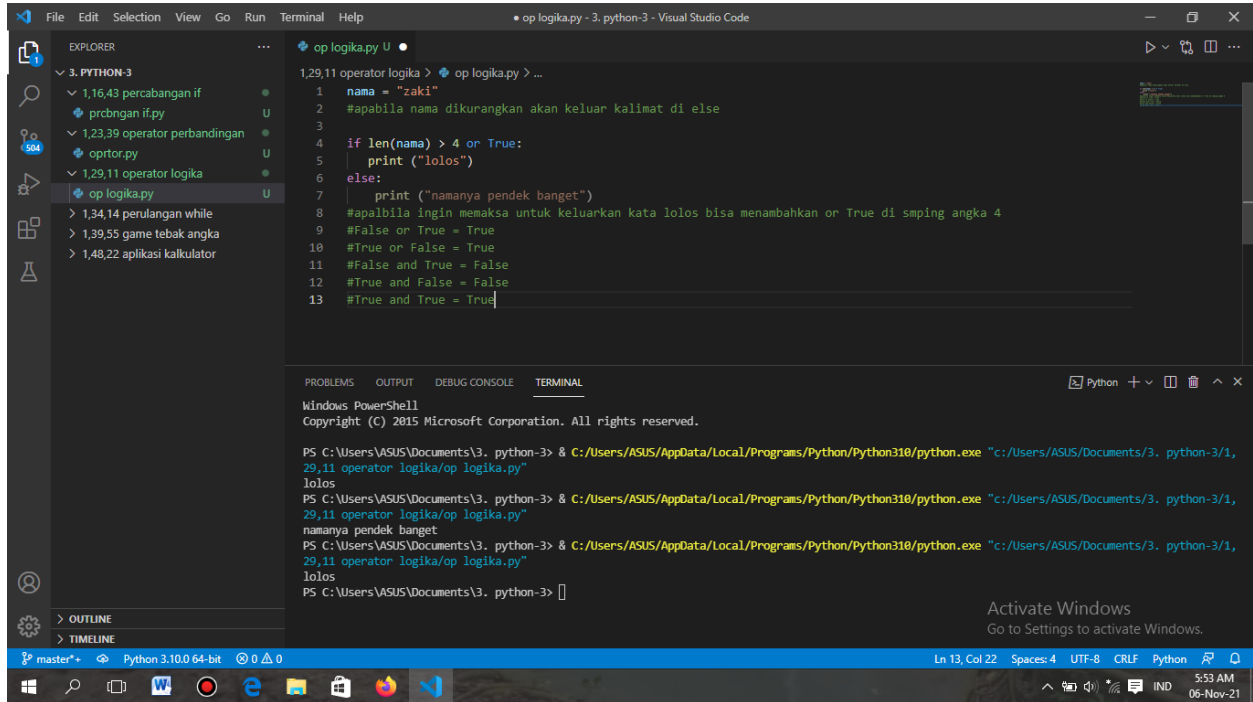
The screenshot shows the Visual Studio Code interface. The Explorer pane on the left shows a project named '3. PYTHON-3' with a file 'oprtr.py' selected. The Editor pane displays the following Python code:

```
1,23,39 operator perbandingan > oprtr.py > ...
1 #ada >,<,>=,<=,==,!=
2 result = 5>1
3 print(result)
4 result = 5<1
5 print(result)
6
7 #contoh di nilai
8 grade = 5
9 if grade >= 7:
10     print("nilai kamu B")
11 elif grade >= 6.5:
12     print("nilai kamu C+")
13 elif grade >= 5:
14     print("belajar lebih giat lagi !!!")
```

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

```
False
PS C:\Users\ASUS\Documents\3. python-3> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/3. python-3/1,23,39 operator perbandingan/oprtr.py"
True
False
belajar lebih giat lagi !!!
PS C:\Users\ASUS\Documents\3. python-3> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/ASUS/Documents/3. python-3/1,23,39 operator perbandingan/oprtr.py"
True
False
belajar lebih giat lagi !!!
PS C:\Users\ASUS\Documents\3. python-3> |
```

### 3. Operator logika



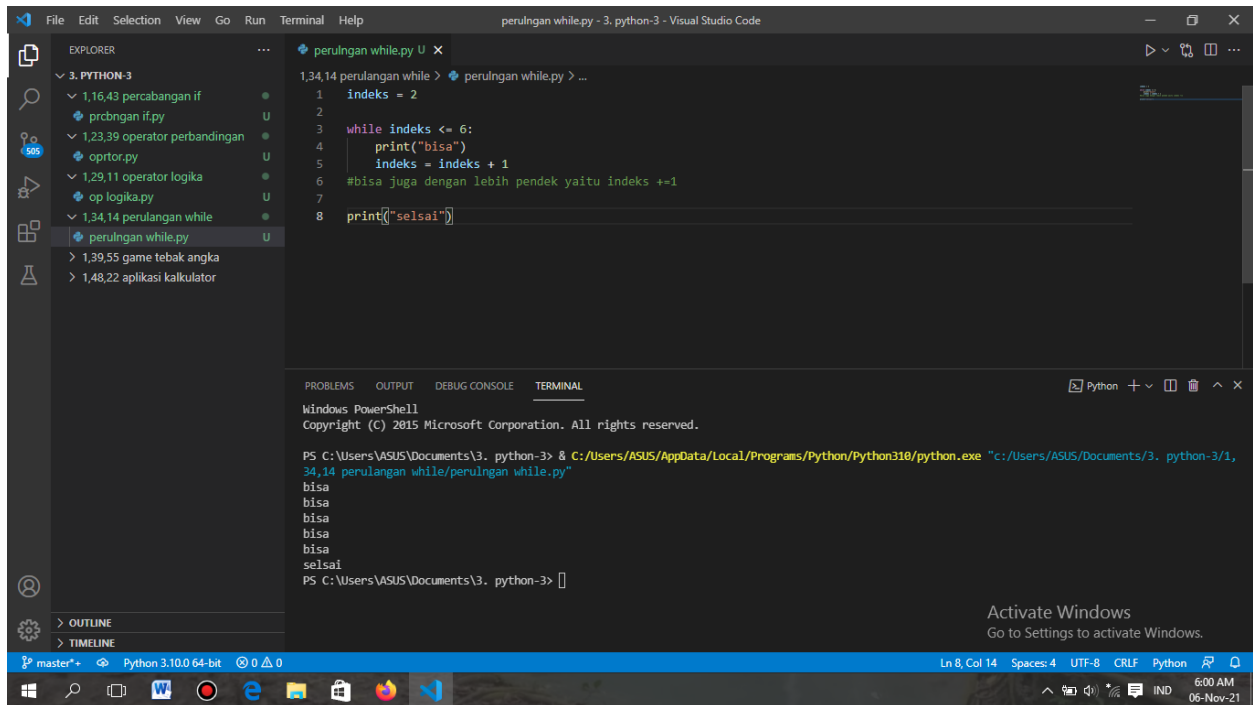
The screenshot shows the Visual Studio Code interface with a Python file named `op logika.py` open. The Explorer sidebar on the left shows a project structure with a folder `3. PYTHON-3` containing several files, including `op logika.py`. The main editor displays the following Python code:

```
1,29,11 operator logika > op logika.py > ...
1  nama = "zaki"
2  #apabila nama dikurangkan akan keluar kalimat di else
3
4  if len(nama) > 4 or True:
5      print ("lolos")
6  else:
7      print ("namanya pendek banget")
8  #apabila ingin memaksa untuk keluar kata lolos bisa menambahkan or True di smping angka 4
9  #False or True = True
10 #True or False = True
11 #False and True = False
12 #True and False = False
13 #True and True = True
```

The TERMINAL panel at the bottom shows the execution of the script using the Windows PowerShell command prompt:

```
PS C:\Users\ASUS\Documents\3. python-3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,29,11 operator logika/op logika.py"
lolos
PS C:\Users\ASUS\Documents\3. python-3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,29,11 operator logika/op logika.py"
namanya pendek banget
PS C:\Users\ASUS\Documents\3. python-3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,29,11 operator logika/op logika.py"
lolos
PS C:\Users\ASUS\Documents\3. python-3>
```

### 4. Perulangan while



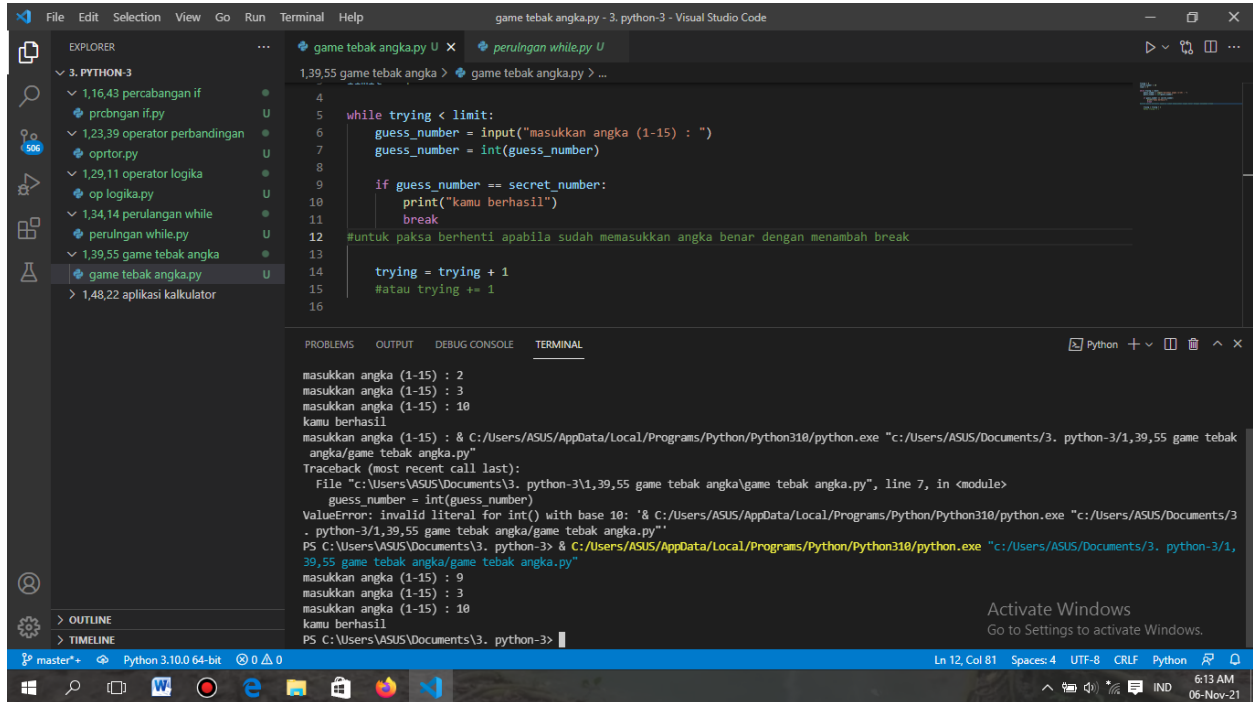
The screenshot shows the Visual Studio Code interface with a Python file named `perulangan while.py` open. The Explorer sidebar on the left shows a project structure with a folder `3. PYTHON-3` containing several files, including `perulangan while.py`. The main editor displays the following Python code:

```
1,34,14 perulangan while > perulangan while.py > ...
1  indeks = 2
2
3  while indeks <= 6:
4      print("bisa")
5      indeks = indeks + 1
6  #bisa juga dengan lebih pendek yaitu indeks +=1
7
8  print("selesai")
```

The TERMINAL panel at the bottom shows the execution of the script using the Windows PowerShell command prompt:

```
PS C:\Users\ASUS\Documents\3. python-3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,34,14 perulangan while/perulangan while.py"
bisa
bisa
bisa
bisa
bisa
selesai
PS C:\Users\ASUS\Documents\3. python-3>
```

## 5. Game tebak angka



```
File Edit Selection View Go Run Terminal Help
game tebak angka.py - 3. python-3 - Visual Studio Code

EXPLORER
3. PYTHON-3
  1,16,43 percabangan if
  1,23,39 operator perbandingan
  1,29,11 operator logika
  1,34,14 perulangan while
  1,39,55 game tebak angka
  1,48,22 aplikasi kalkulator

game tebak angka.py
1,39,55 game tebak angka > game tebak angka.py > ...

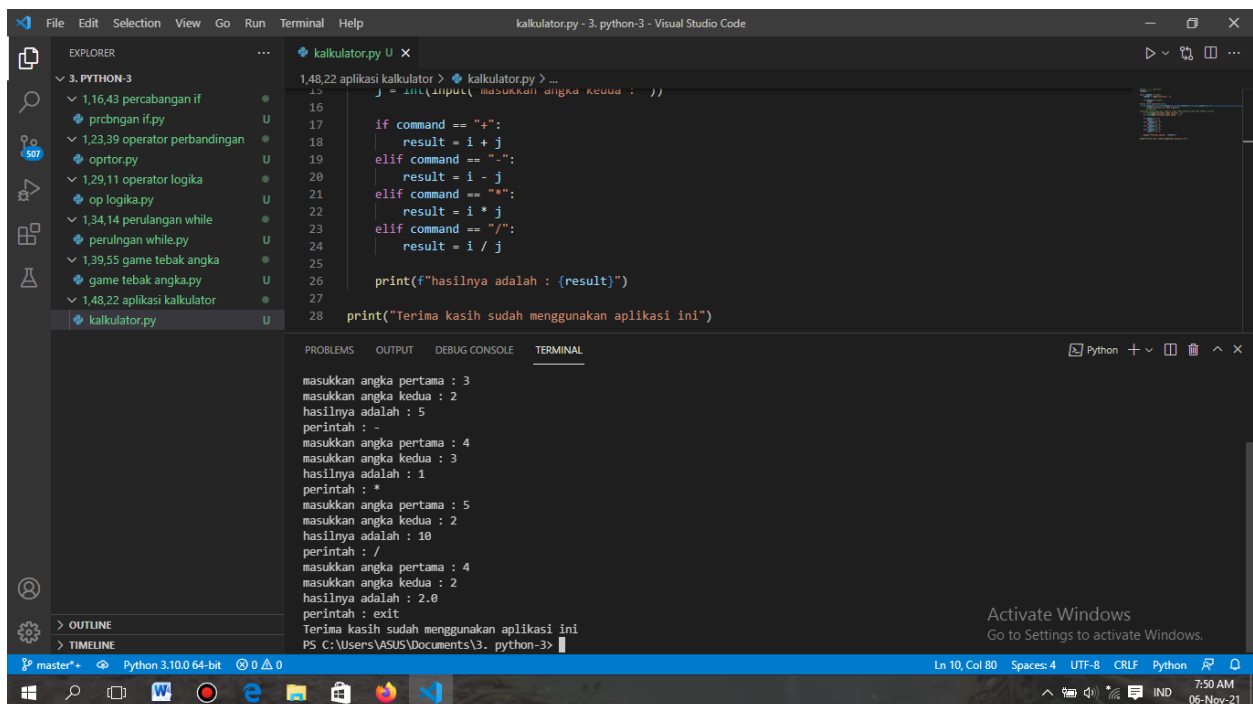
4
5 while trying < limit:
6     guess_number = input("masukkan angka (1-15) : ")
7     guess_number = int(guess_number)
8
9     if guess_number == secret_number:
10        print("kamu berhasil")
11        break
12
13 #untuk paksa berhenti apabila sudah memasukkan angka benar dengan menambah break
14
15 trying = trying + 1
16 #atau trying += 1
17

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -

masukkan angka (1-15) : 2
masukkan angka (1-15) : 3
masukkan angka (1-15) : 10
kamu berhasil
masukkan angka (1-15) : & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,39,55 game tebak
angka/game tebak angka.py"
Traceback (most recent call last):
  File "c:/Users/ASUS/Documents/3. python-3/1,39,55 game tebak angka/game tebak angka.py", line 7, in <module>
    guess_number = int(guess_number)
ValueError: invalid literal for int() with base 10: '& C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3
. python-3/1,39,55 game tebak angka/game tebak angka.py"'
PS C:/Users/ASUS/Documents/3. python-3> & C:/Users/ASUS/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ASUS/Documents/3. python-3/1,
39,55 game tebak angka/game tebak angka.py"
masukkan angka (1-15) : 9
masukkan angka (1-15) : 3
masukkan angka (1-15) : 10
kamu berhasil
PS C:/Users/ASUS/Documents/3. python-3>

Activate Windows
Go to Settings to activate Windows.
```

## 6. Aplikasi kalkulator



```
File Edit Selection View Go Run Terminal Help
kalkulator.py - 3. python-3 - Visual Studio Code

EXPLORER
3. PYTHON-3
  1,16,43 percabangan if
  1,23,39 operator perbandingan
  1,29,11 operator logika
  1,34,14 perulangan while
  1,39,55 game tebak angka
  1,48,22 aplikasi kalkulator
  kalkulator.py

kalkulator.py
1,48,22 aplikasi kalkulator > kalkulator.py > ...
15 j = int(input("masukkan angka kedua : "))
16
17 if command == "+":
18     result = i + j
19 elif command == "-":
20     result = i - j
21 elif command == "*":
22     result = i * j
23 elif command == "/":
24     result = i / j
25
26 print(f"hasilnya adalah : {result}")
27
28 print("Terima kasih sudah menggunakan aplikasi ini")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - - - - -

masukkan angka pertama : 3
masukkan angka kedua : 2
hasilnya adalah : 5
perintah : +
masukkan angka pertama : 4
masukkan angka kedua : 3
hasilnya adalah : 1
perintah : *
masukkan angka pertama : 5
masukkan angka kedua : 2
hasilnya adalah : 10
perintah : /
masukkan angka pertama : 4
masukkan angka kedua : 2
hasilnya adalah : 2.0
perintah : exit
Terima kasih sudah menggunakan aplikasi ini
PS C:/Users/ASUS/Documents/3. python-3>

Activate Windows
Go to Settings to activate Windows.
```