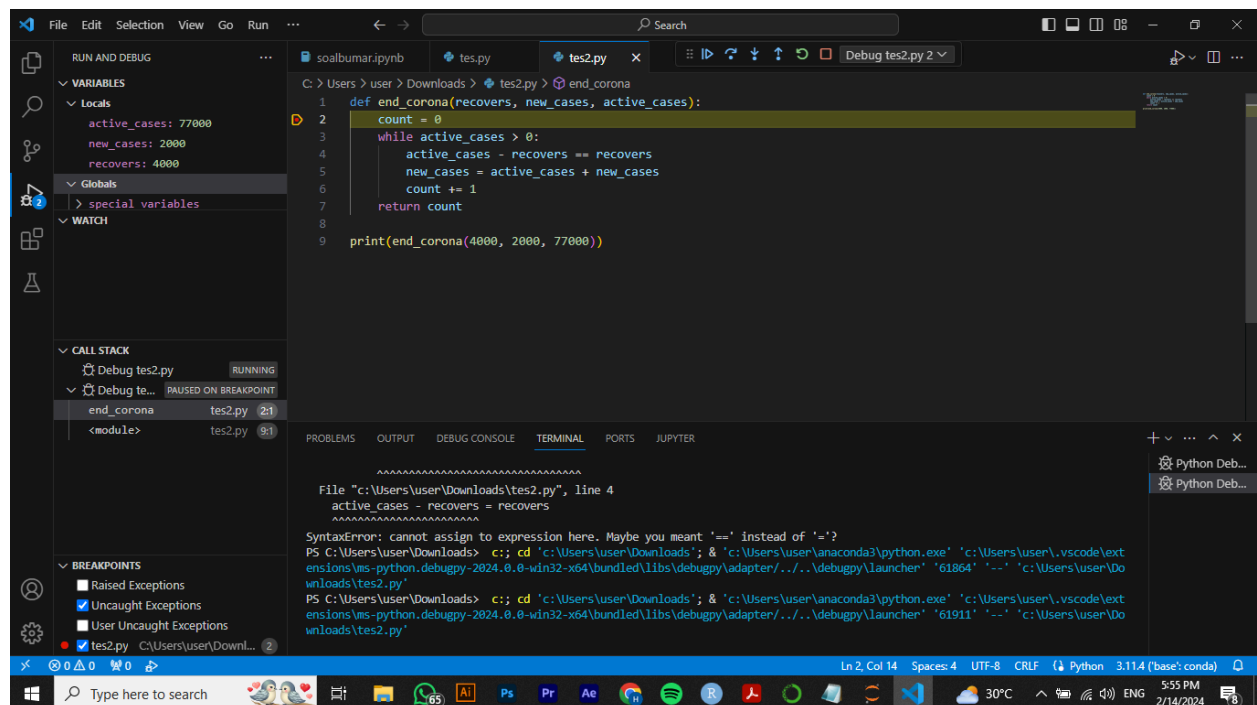
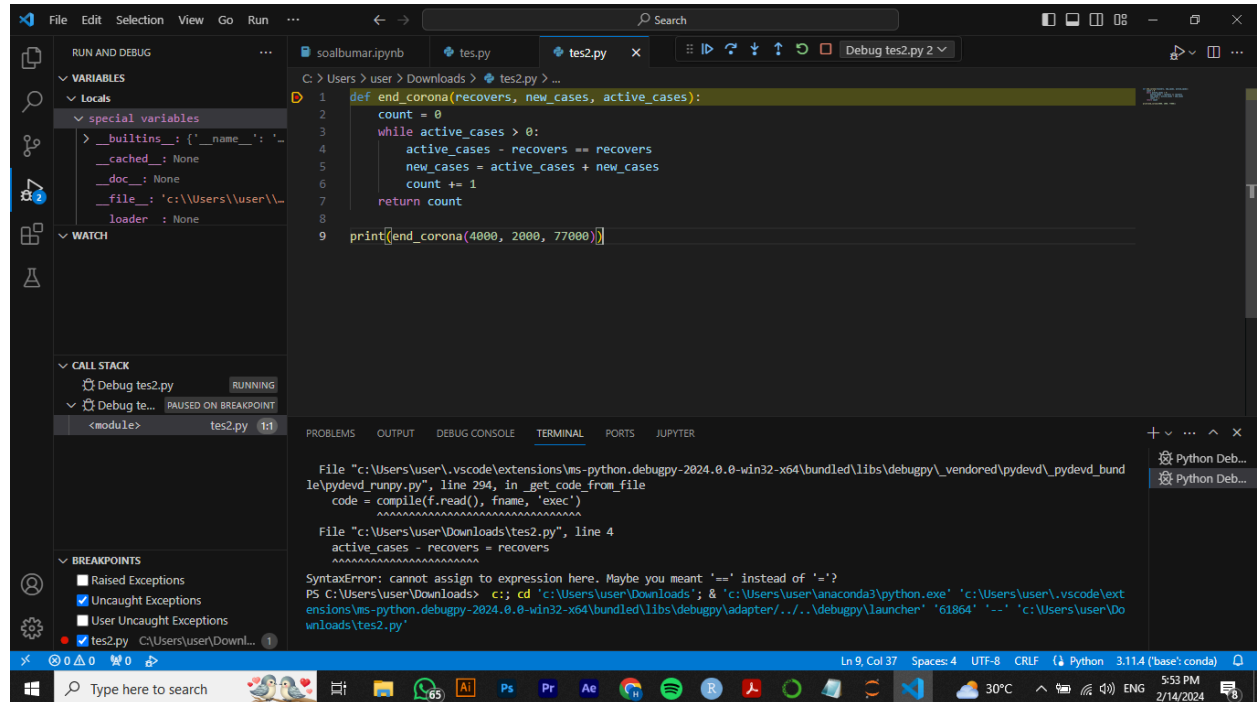


Tugas Praktikum 1

Harvest Ecclesiano Christ Walukow

164231104

Mencari Bug dengan Breakpoint



Hingga statement kedua, **belum ditemukan adanya bug**.

File Edit Selection View Go Run ... Search

soalbumar.ipynb tes.py tes2.py x Debug tes2.py 2

C:\Users\user> Downloads > tes2.py > end_corona

```
1 def end_corona(recoverys, new_cases, active_cases):
2     count = 0
3     while active_cases > 0:
4         active_cases - recoverys == recoverys
5         new_cases = active_cases + new_cases
6         count += 1
7     return count
8
9 print(end_corona(4000, 2000, 77000))
```

VARIABLES

- Locals
 - active_cases: 77000
 - count: 0
 - new_cases: 2000
 - recoverys: 4000
- Globals
- WATCH

CALL STACK

- Debug tes2.py RUNNING
- Debug tes2.py 2 PAUSED ON STEP
 - end_corona tes2.py 3:1
 - <module> tes2.py 9:1

BREAKPOINTS

- ☐ Raised Exceptions
- ☒ Uncaught Exceptions
- ☐ User Uncaught Exceptions
- ☒ tes2.py C:\Users\user\Downl...

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER

File "c:\Users\user\Downloads\tes2.py", line 4
active_cases - recoverys = recoverys

SyntaxError: cannot assign to expression here. Maybe you meant '=' instead of '-':
PS C:\Users\user\Downloads> c;; cd 'c:\Users\user\Downloads'; & 'c:\Users\user\anaconda3\python.exe' 'c:\Users\user\.vscode\extensions\ms-python.debugpy-2024.0.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '61864' '--' 'c:\Users\user\Downloads\tes2.py'
PS C:\Users\user\Downloads> c;; cd 'c:\Users\user\Downloads'; & 'c:\Users\user\anaconda3\python.exe' 'c:\Users\user\.vscode\extensions\ms-python.debugpy-2024.0.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '61911' '--' 'c:\Users\user\Downloads\tes2.py'

Ln 3, Col 1 Spaces: 4 UTF-8 CRLF Python 3.114 (base: conda)

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File Edit Selection View Go Run ... Search

soalbumar.ipynb tes.py tes2.py x Debug tes2.py 2

C:\Users\user> Downloads > tes2.py > end_corona

```
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4         active_cases - recoverys == recoverys
5         new_cases = active_cases + new_cases
6         count += 1
7     return count
8
9 print(end_corona(4000, 2000, 77000))
```

VARIABLES

- Locals
 - active_cases: 77000
 - count: 1
 - new_cases: 156000
 - recoverys: 4000
- Globals
- WATCH

CALL STACK

- Debug tes2.py RUNNING
- Debug tes2.py 2 PAUSED ON STEP
 - end_corona tes2.py 6:1
 - <module> tes2.py 9:1

BREAKPOINTS

- ☐ Raised Exceptions
- ☒ Uncaught Exceptions
- ☐ User Uncaught Exceptions
- ☒ tes2.py C:\Users\user\Downl...

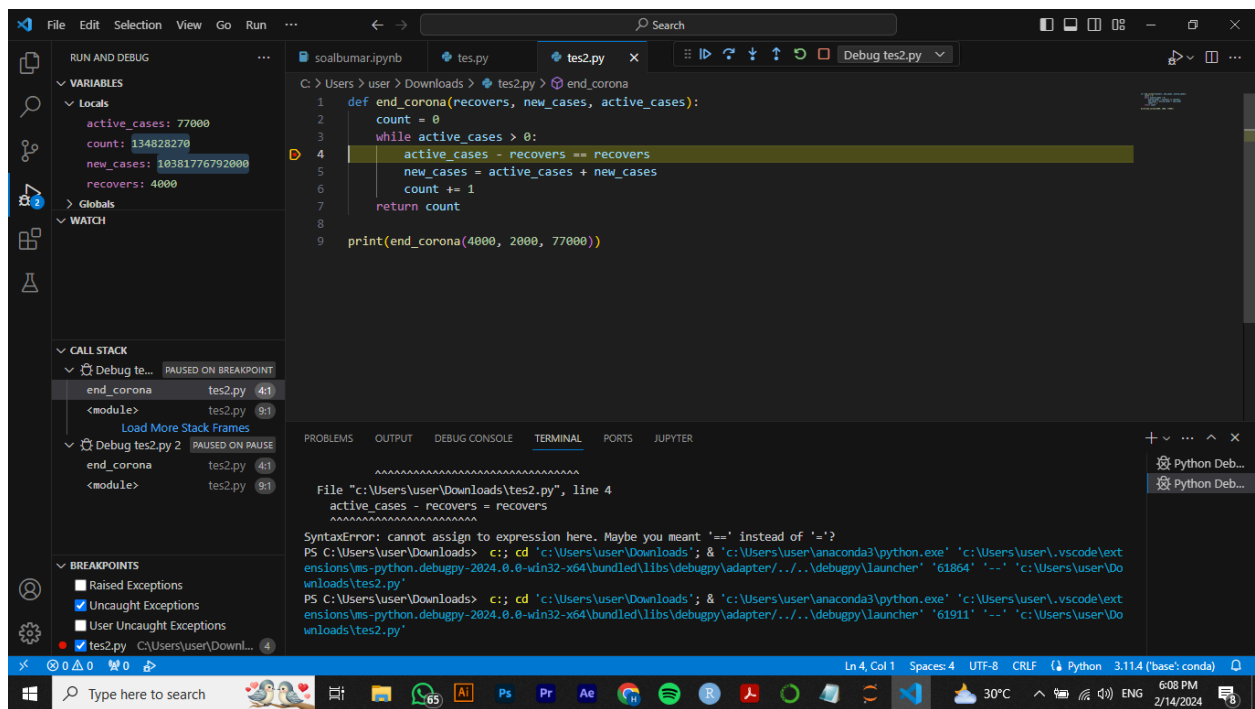
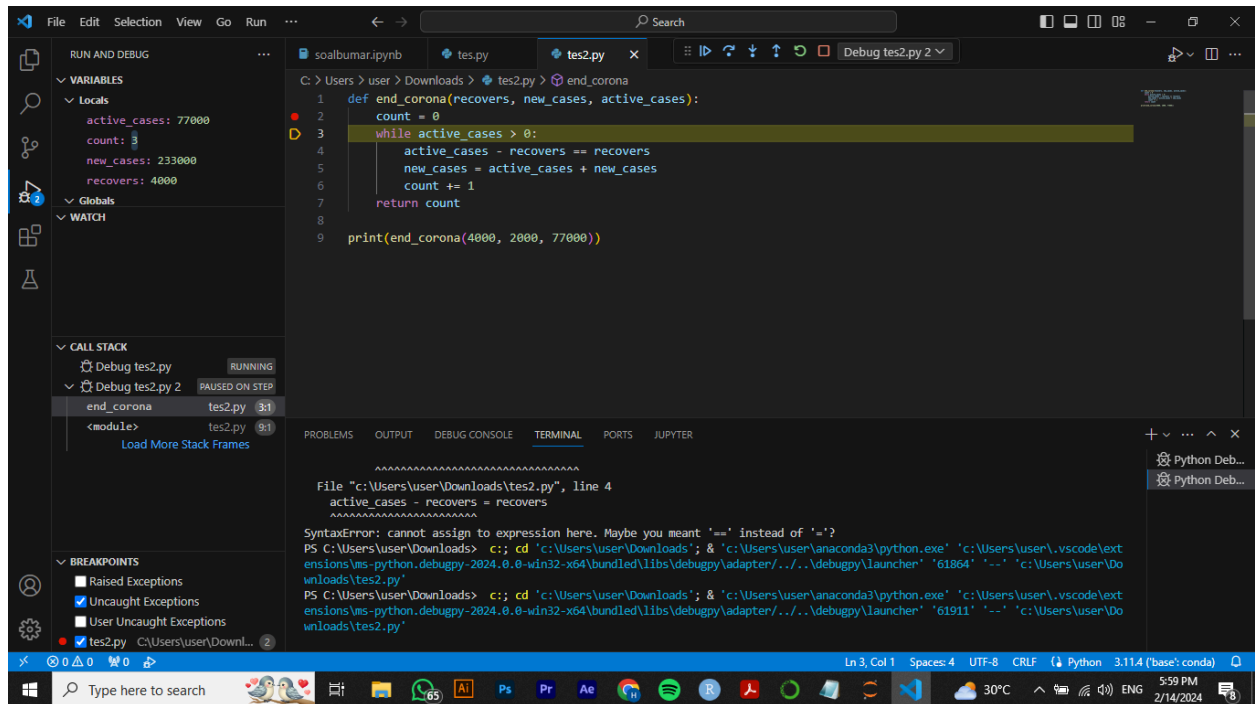
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS JUPYTER

File "c:\Users\user\Downloads\tes2.py", line 4
active_cases - recoverys = recoverys

SyntaxError: cannot assign to expression here. Maybe you meant '=' instead of '-':
PS C:\Users\user\Downloads> c;; cd 'c:\Users\user\Downloads'; & 'c:\Users\user\anaconda3\python.exe' 'c:\Users\user\.vscode\extensions\ms-python.debugpy-2024.0.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '61864' '--' 'c:\Users\user\Downloads\tes2.py'
PS C:\Users\user\Downloads> c;; cd 'c:\Users\user\Downloads'; & 'c:\Users\user\anaconda3\python.exe' 'c:\Users\user\.vscode\extensions\ms-python.debugpy-2024.0.0-win32-x64\bundled\libs\debugpy\adapter\..\..\debugpy\launcher' '61911' '--' 'c:\Users\user\Downloads\tes2.py'

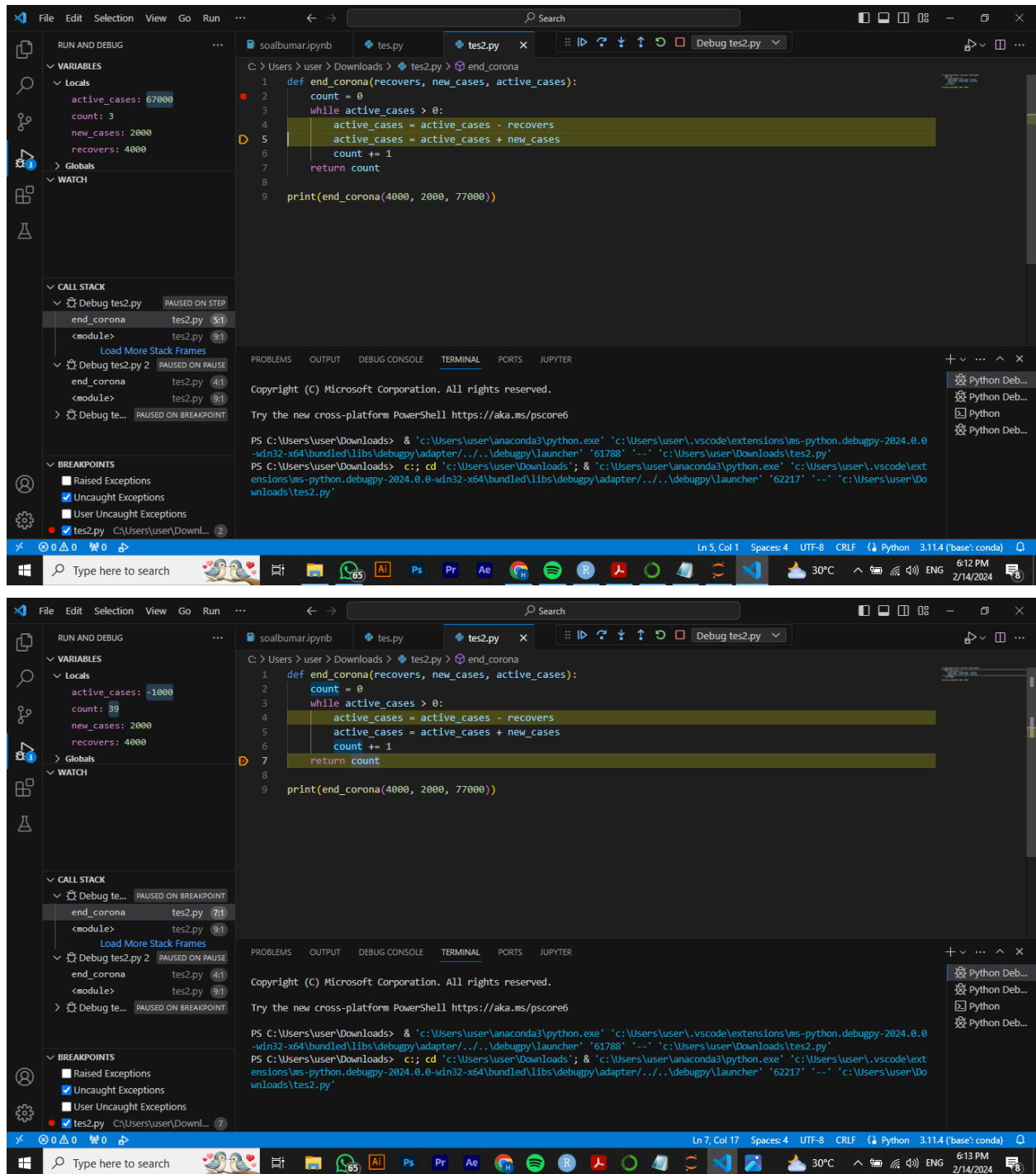
Ln 6, Col 1 Spaces: 4 UTF-8 CRLF Python 3.114 (base: conda)

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Saat proses debugging dilakukan pada fungsi while, dapat dilihat bahwa terdapat **penambahan jumlah new_cases**, padahal diinginkan adanya **penurunan active_cases** untuk mendapat output sesuai dengan yang diharapkan. Hal ini juga mengakibatkan iterasi tak terbatas.

Melakukan Fix



Perbaikan dilakukan pada fungsi while, sehingga mendapat hasil yang diinginkan. Saat fungsi `end_corona(4000, 2000, 77000)` dijalankan, maka diperoleh hasil 39.