

Nama : virna febri andini

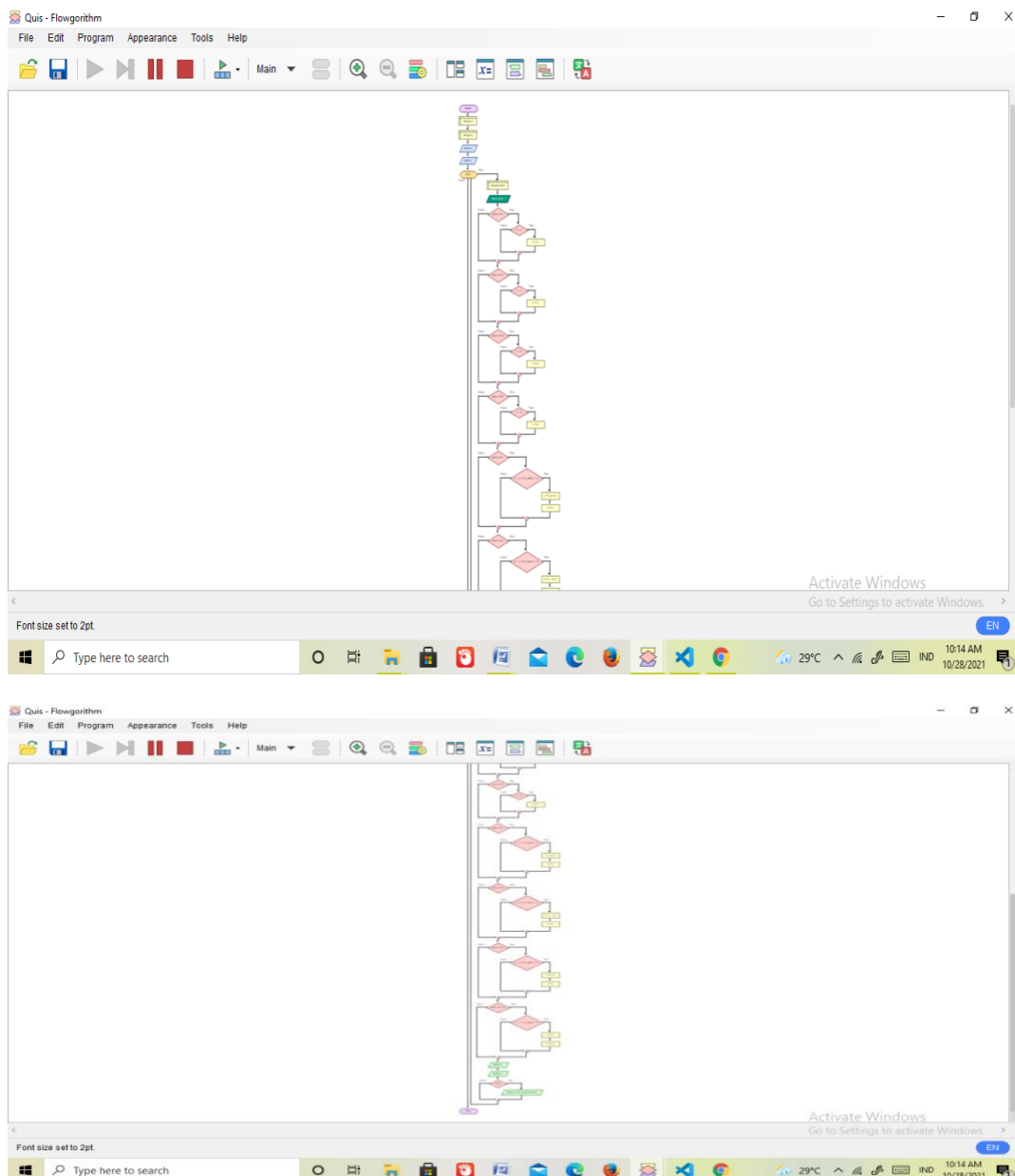
Nim : 20.01.013.017

Kelas : kecerdasan buatan B

Problem solves

(Wadah x dan y dengan goal $y=2$)

1. Berikut ini adalah flowchart penyelesaian masalah wadah x dan y



Source Code Viewer

```
0 x = int(input())
1 y = int(input())
2 while True:
3     rules = int(input())
4     if rules == 1:
5         if x < 4:
6             x = 4
7     if rules == 2:
8         if y < 3:
9             y = 3
10    if rules == 5:
11        if x > 0:
12            x = 0
13    if rules == 6:
14        if y > 0:
15            y = 0
16    if rules == 7:
17        if x + y >= 4 and y > 0:
18            y = y - (4 - x)
19            x = 4
20    if rules == 8:
21        if x + y >= 3 and x > 0:
22            x = x - (3 - y)
```

Activate Windows
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Source Code Viewer

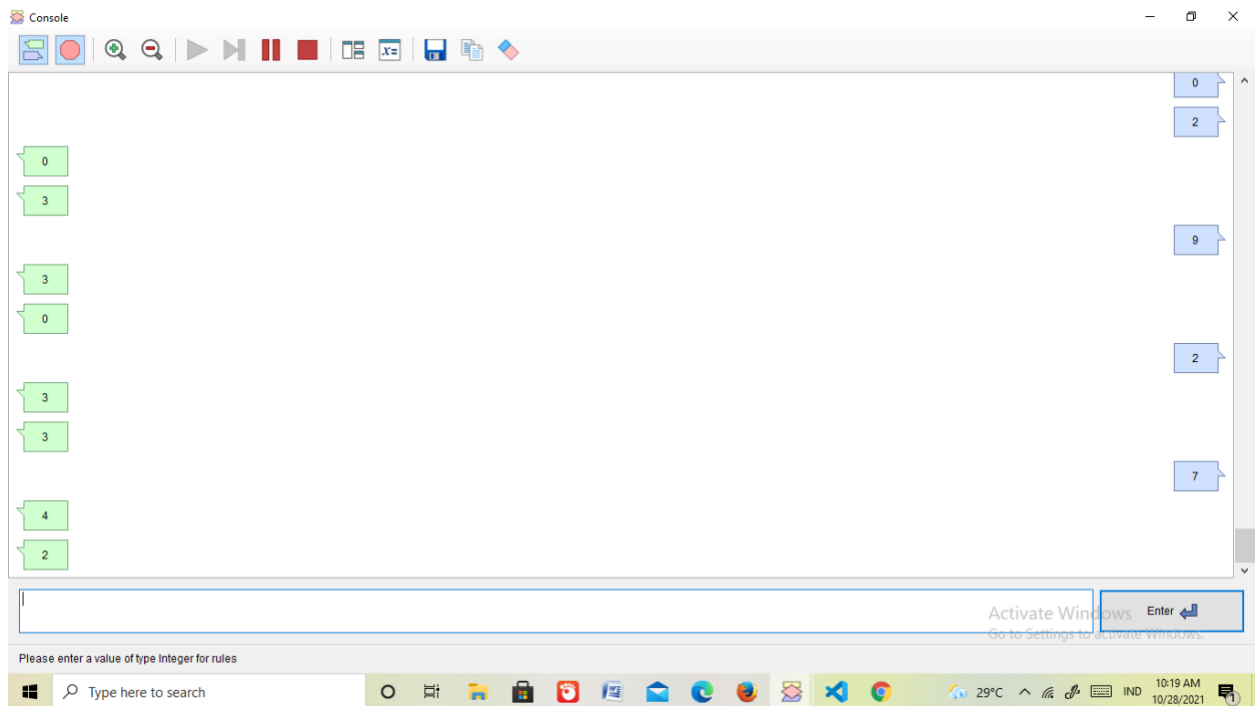
```
14     if y > 0:
15         y = 0
16     if rules == 7:
17         if x + y >= 4 and y > 0:
18             y = y - (4 - x)
19             x = 4
20     if rules == 8:
21         if x + y >= 3 and x > 0:
22             x = x - (3 - y)
23             y = 3
24     if rules == 9:
25         if x + y <= 4 and y > 0:
26             x = x + y
27             y = 0
28     if rules == 10:
29         if x + y <= 3 and x > 0:
30             x = 0
31             y = x + y
32     print(x)
33     print(y)
34     if x == 2:
35         print("solusi ditemukan")
```

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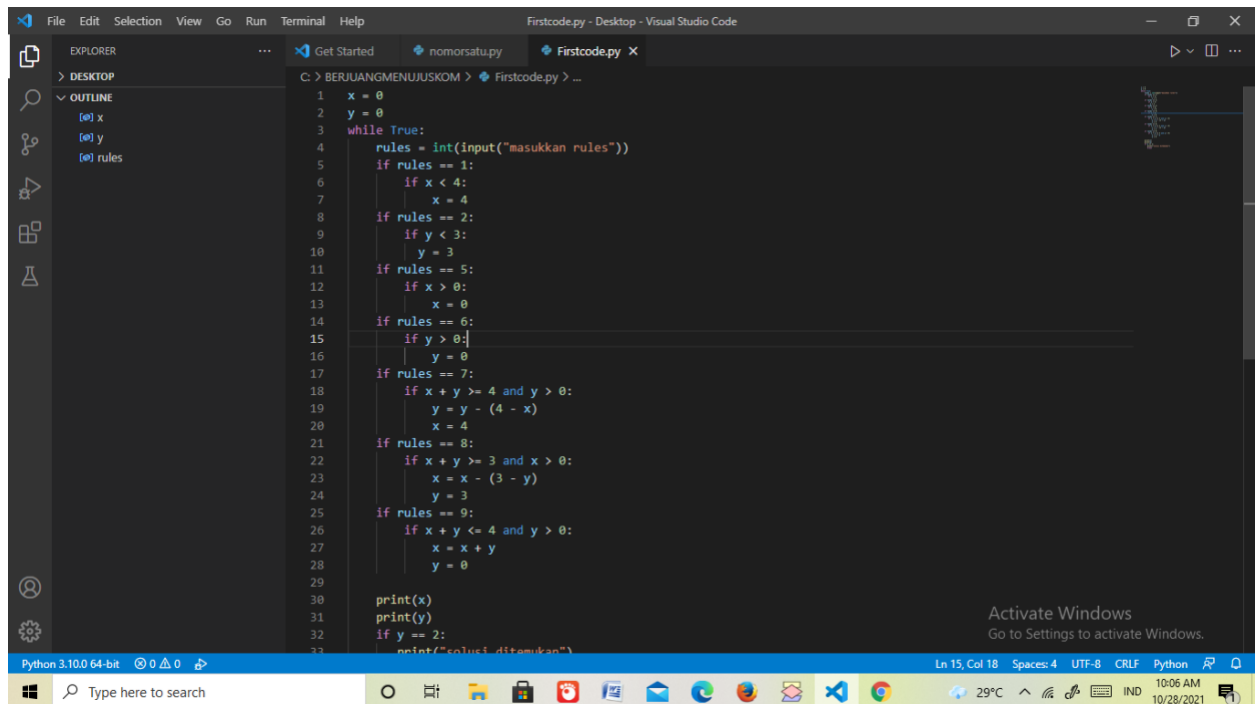
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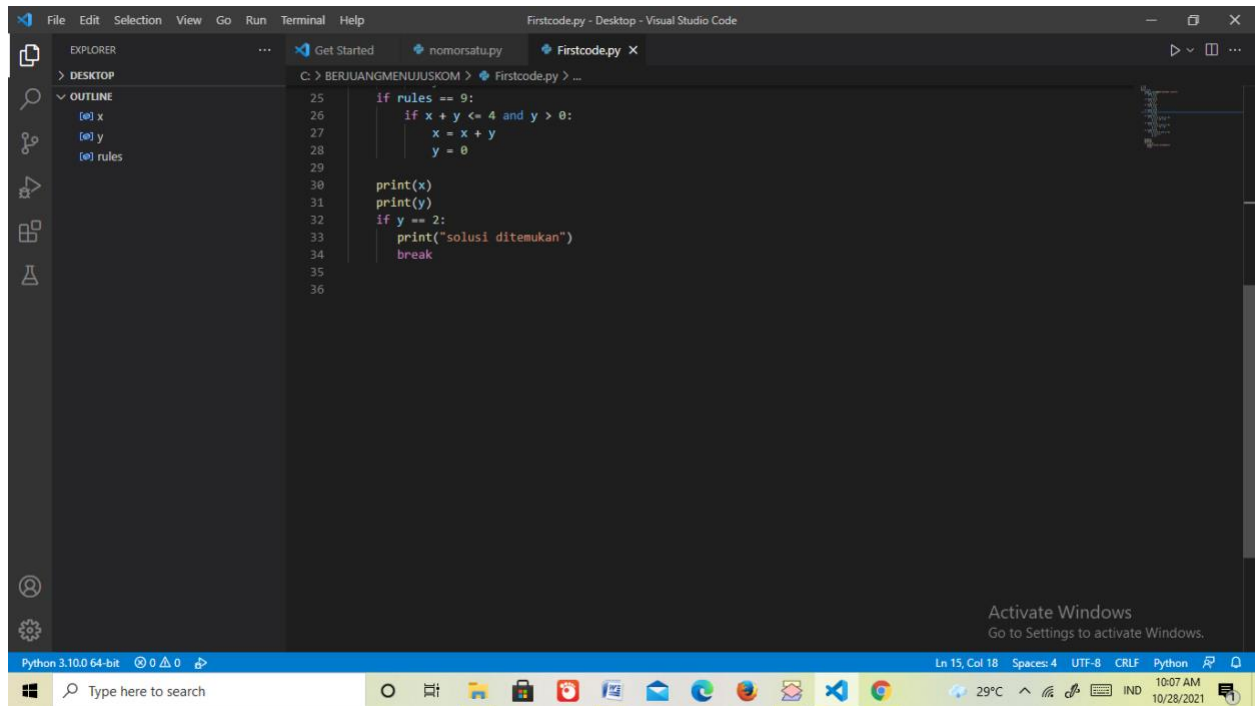
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2. Berikut adalah solusi yang ditemukan pada flowgorithm ketika kita menjalankan flowchart diatas



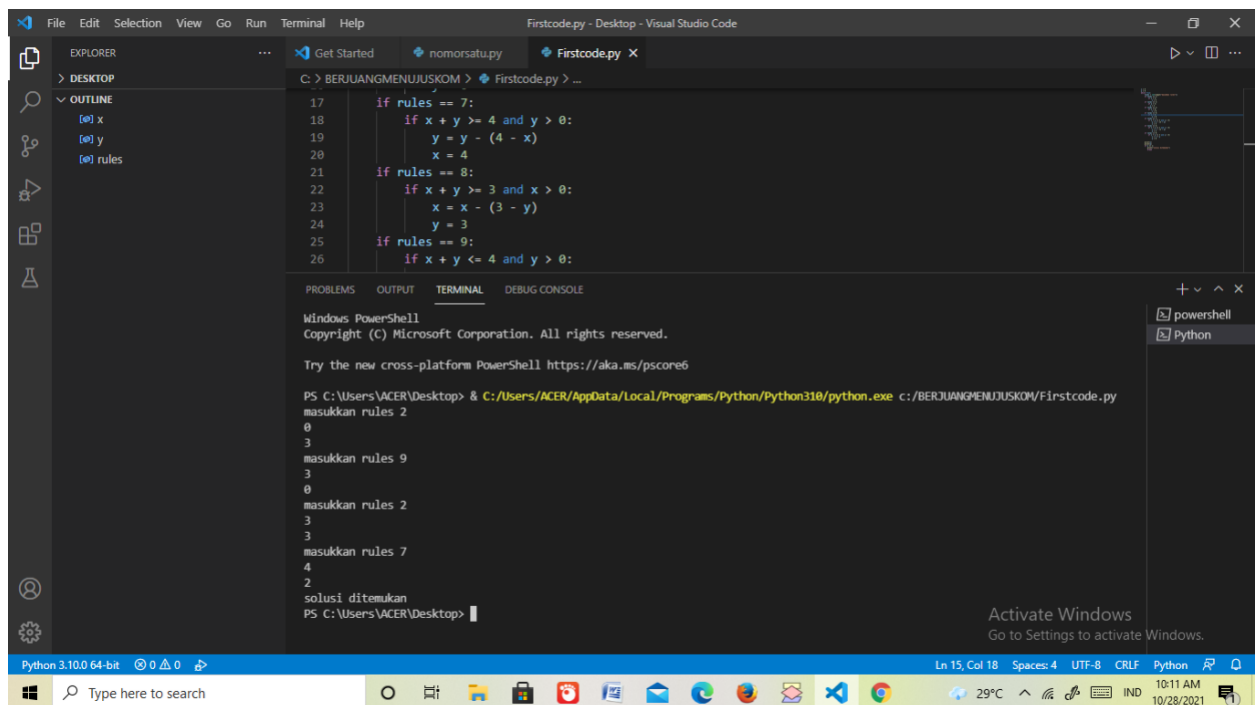
3. Kemudian saya membuat ulang source code tersebut di VSCODE.





```
25     if rules == 9:
26         if x + y <= 4 and y > 0:
27             x = x + y
28             y = 0
29
30     print(x)
31     print(y)
32     if y == 2:
33         print("solusi ditemukan")
34         break
35
36
```

4. Setelah run, berikut adalah output dari penyelesaian masalah wadah X dan Y, dimana di temukan solusi $x=4, y=2$.
Dengan rules : 2, 9, 2, 7



```
17     if rules == 7:
18         if x + y >= 4 and y > 0:
19             y = y - (4 - x)
20             x = 4
21     if rules == 8:
22         if x + y >= 3 and x > 0:
23             x = x - (3 - y)
24             y = 3
25     if rules == 9:
26         if x + y <= 4 and y > 0:
```

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

PS C:\Users\ACER\Desktop> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/BERJUANGMENJUJUSKOM/Firstcode.py
masukkan rules 2
0
3
masukkan rules 9
3
0
masukkan rules 2
3
3
masukkan rules 7
4
2
solusi ditemukan
PS C:\Users\ACER\Desktop>
```