

Tugas 2

Nama : Nessa Kartika

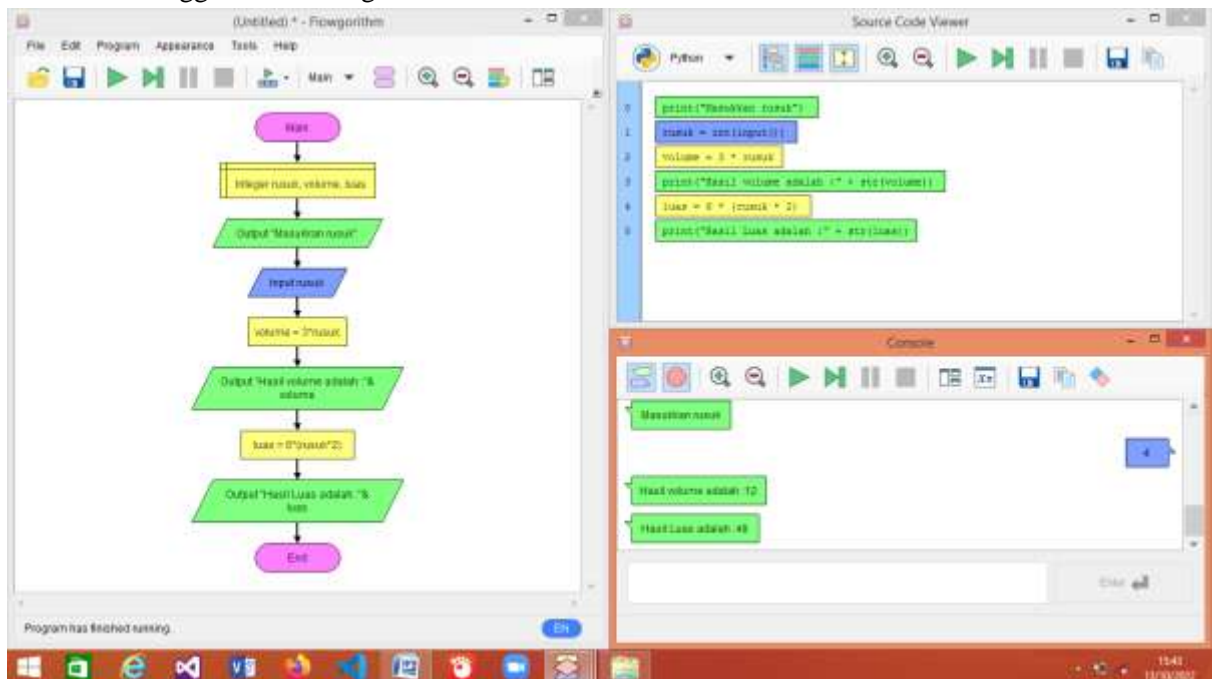
NIM : 211001039

Kelas : 3 D Informatika

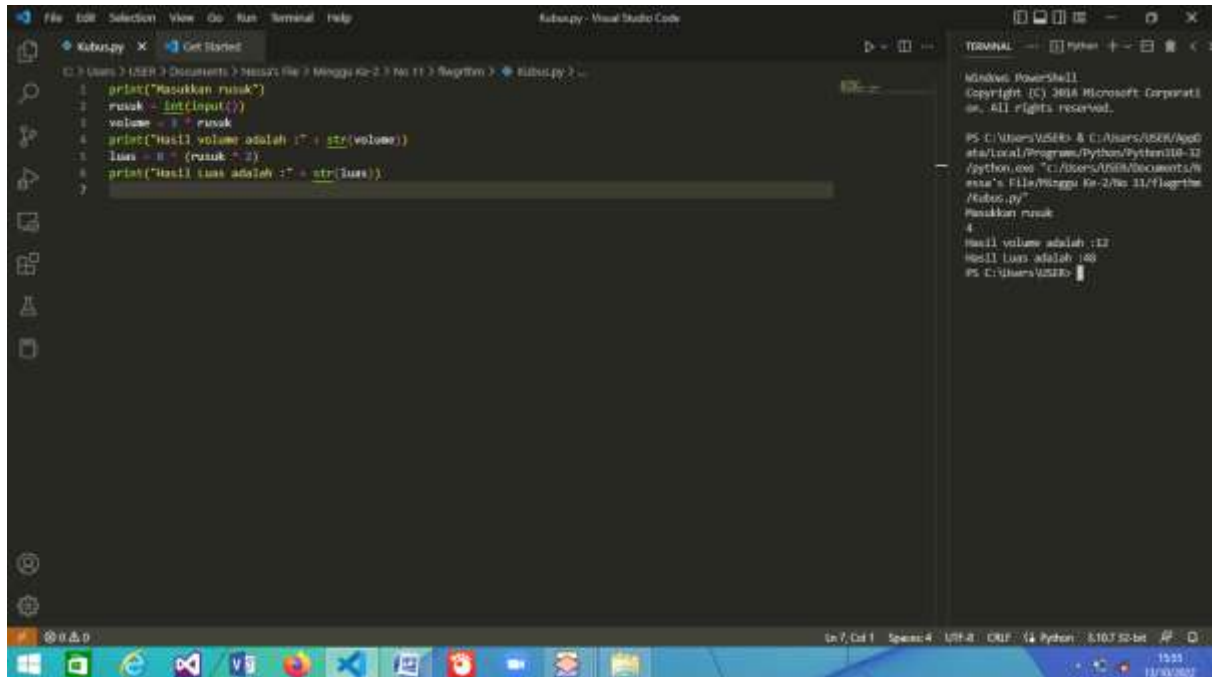
Mecari Luas Dan Volume

1. Kubus

Flowchart menggunakan Flowgorithm

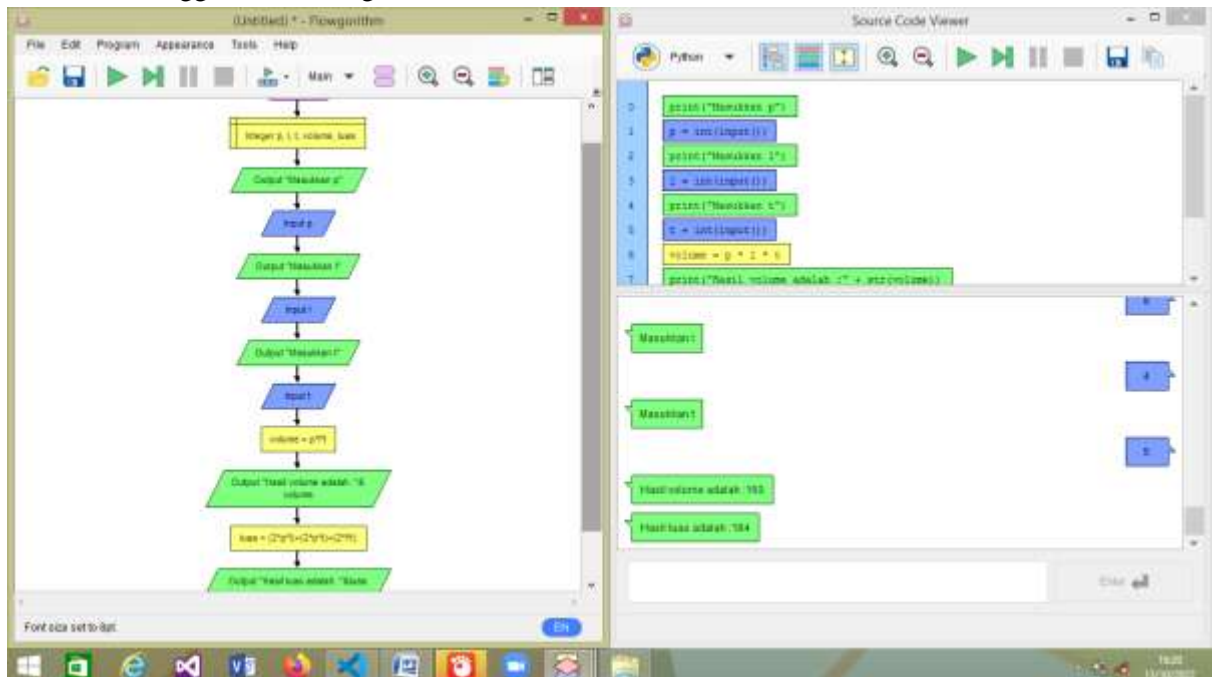


VS-Code

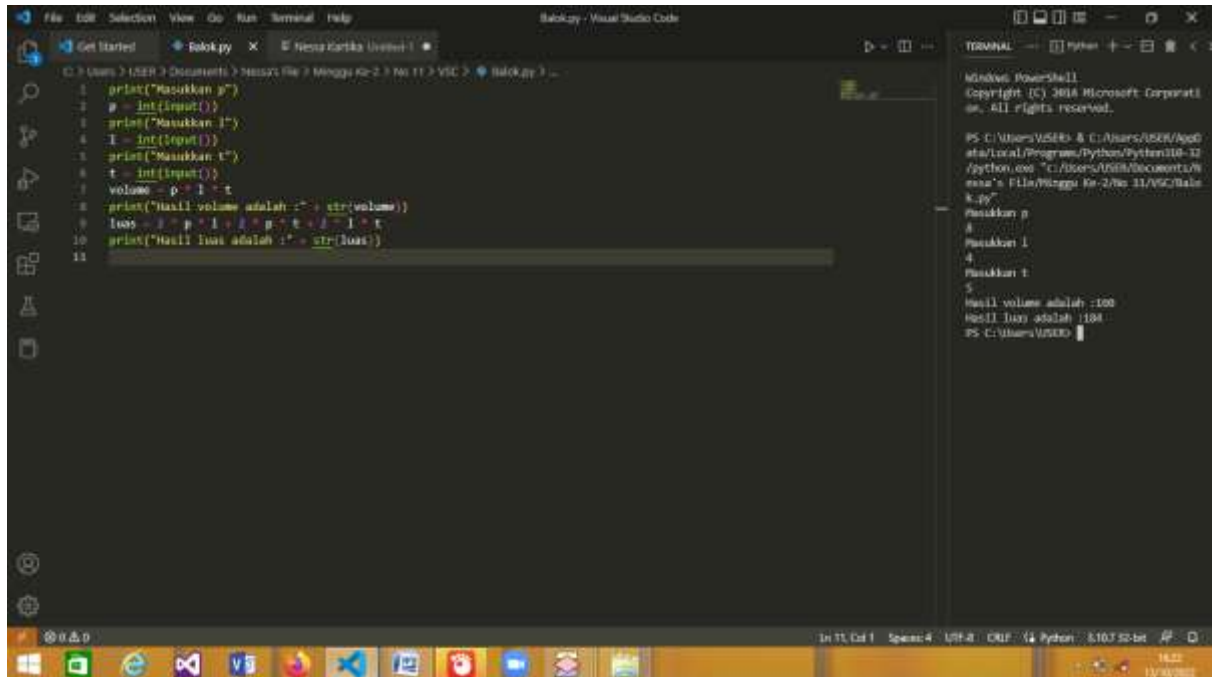


2. Kubus

Flowchart menggunakan Flowgorithm



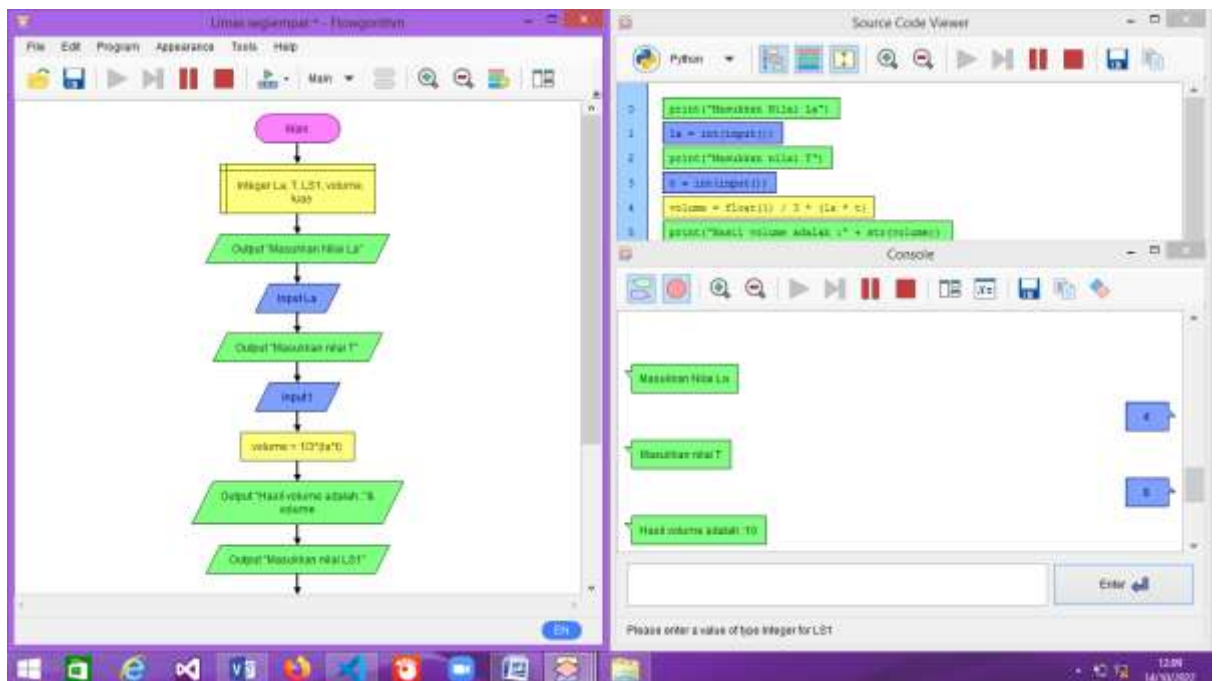
VS-Code



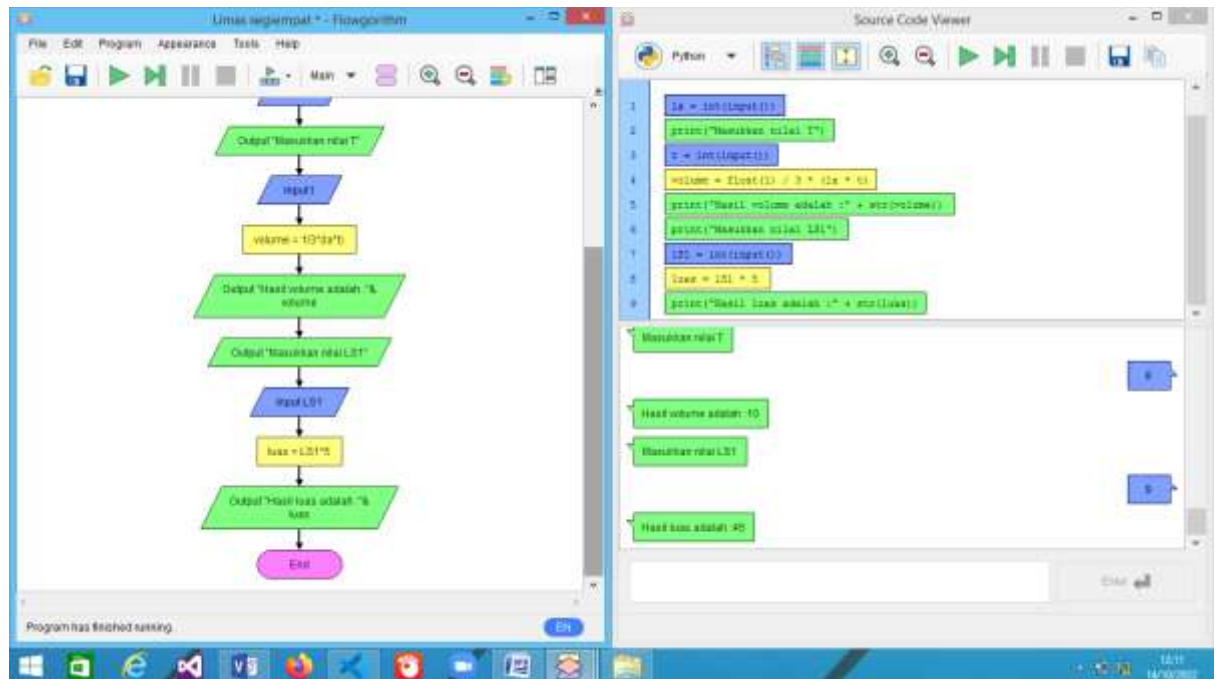
3. Limas segiempat

Flowchart menggunakan Flowgorithm

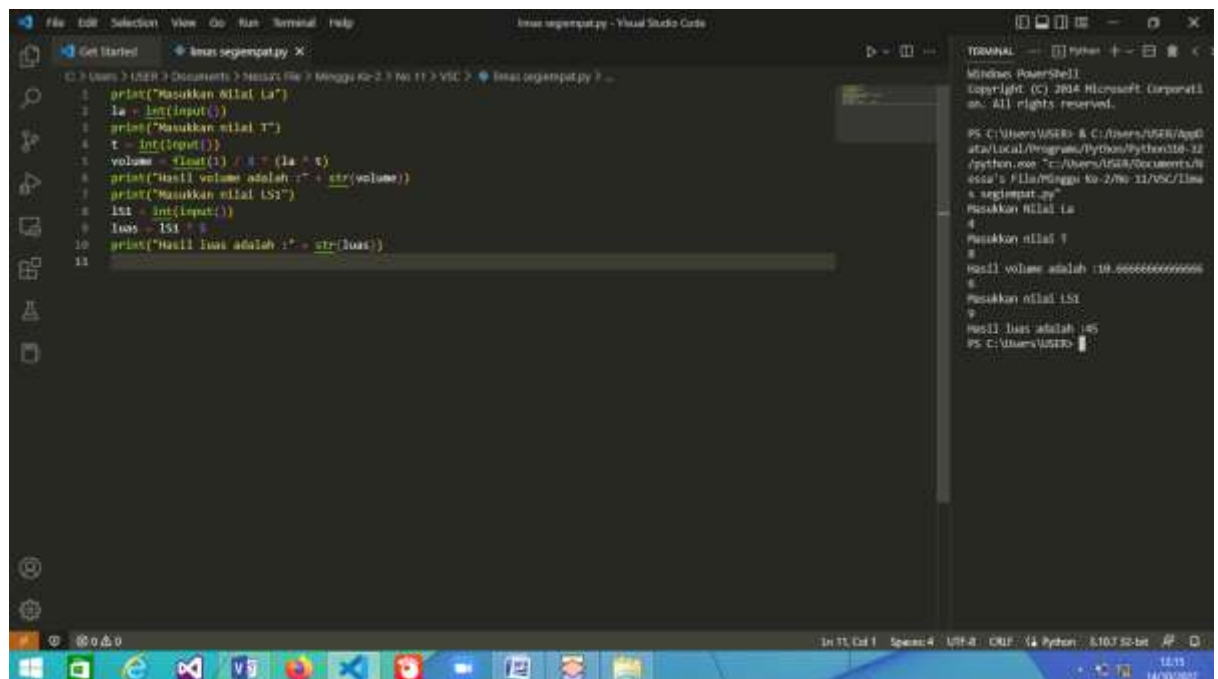
Volume :



Luas :

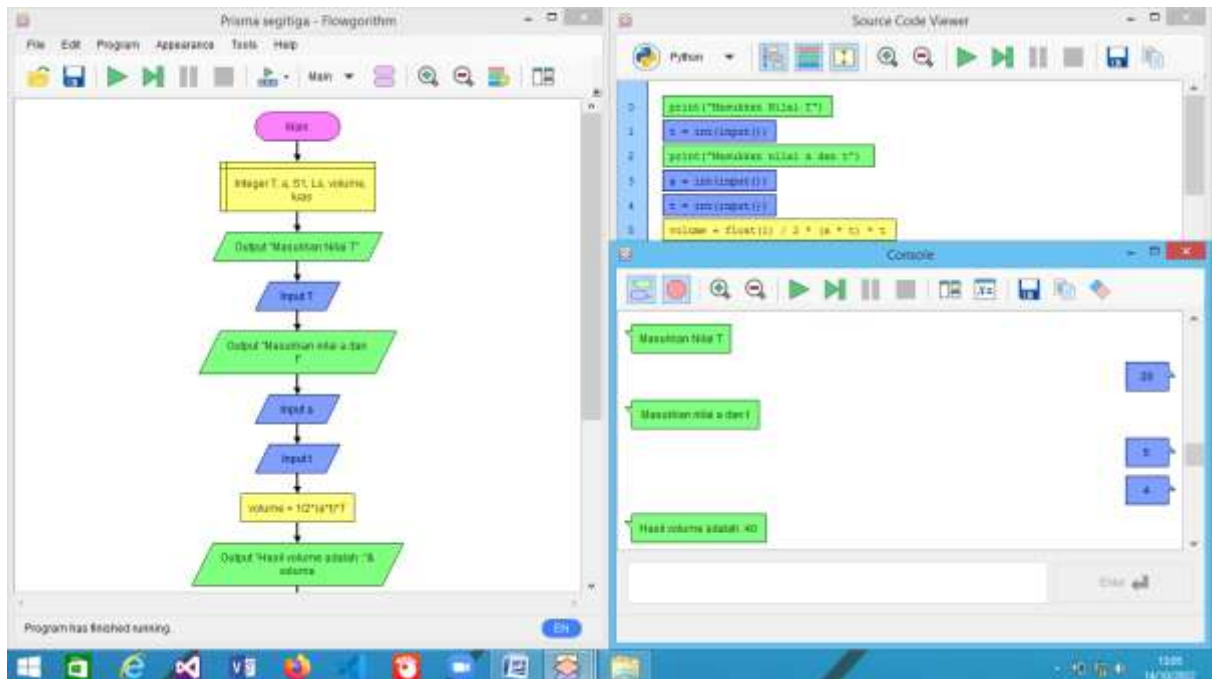


VS-Code

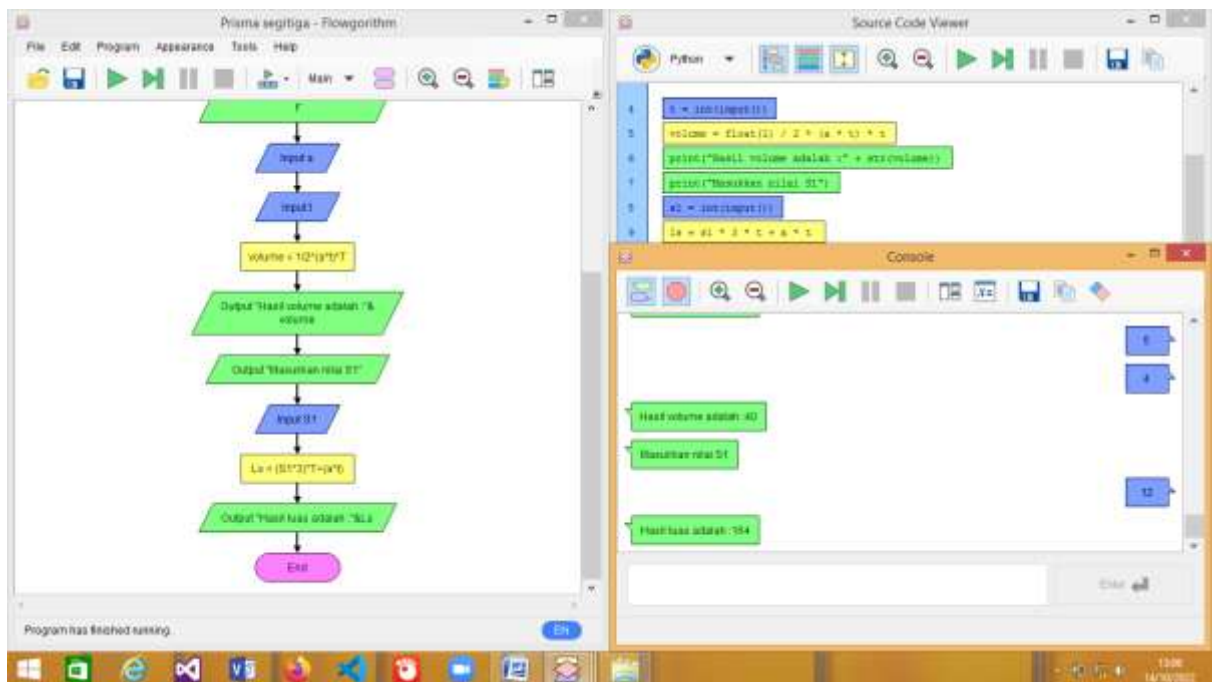


4. Prisma Segitiga

Flowchart menggunakan Flowgorithm
Volume :



Luas :



The screenshot displays the Visual Studio Code interface with a Python file named 'prima_segitiga.py'. The code calculates the volume of a cylinder based on user input for radius (r) and height (t). The formula used is $V = \pi \times r^2 \times t$. The terminal window shows the program's execution, where the user enters 10 for the radius and 5 for the height, resulting in a calculated volume of 1570.8.

```

1 print("Masukkan nilai r")
2 r = int(input())
3 print("Masukkan nilai a dan t")
4 a = int(input())
5 t = int(input())
6 volume = float(1) / 2 * (a + t) * t
7 print("Hasil volume adalah : " + str(volume))
8 print("Masukkan nilai s1")
9 s1 = int(input())
10 ls = s1 * 2 * t + 4 * t
11 print("Hasil luas adalah : " + str(ls))
12

```

Terminal Output:

```

PS C:\Users\USERS>
Copyright (c) 2014 Microsoft Corporation
All rights reserved.

PS C:\Users\USERS> & C:\Users\USERS\AppData\Local\Programs\Python\Python312\python.exe "C:\Users\USERS\Documents\prima_segitiga.py"
Masukkan nilai r
10
Masukkan nilai a dan t
5
Hasil volume adalah :1570.8
Masukkan nilai s1
12
Hasil luas adalah :104
PS C:\Users\USERS>

```

Flowchart menggunakan Flowgorithm

The image displays a programming exercise in two parts: a flowchart and its corresponding Python code.

Flowchart (Left):

```

graph TD
    Start([Start]) --> ReadL[Input l, LST, volume, balok]
    ReadL --> PrintL[Output "Masukkan nilai l"]
    PrintL --> ReadT[Input t]
    ReadT --> PrintP[Output "Masukkan nilai p dan t"]
    PrintP --> ReadP[Input p]
    ReadP --> ReadT2[Input t]
    ReadT2 --> CalcV[Volume = 1/3 * l * p * t]
    CalcV --> PrintV[Output "Hasil volume adalah " & volume]
    
```

Python Code (Right):

```

1 l = int(input())
2 print("Masukkan nilai p dan t")
3 p = int(input())
4 t = int(input())
5 volume = (l*p*t) / 3 + (p + t) * p
6 print("Hasil volume adalah " + str(volume))
    
```

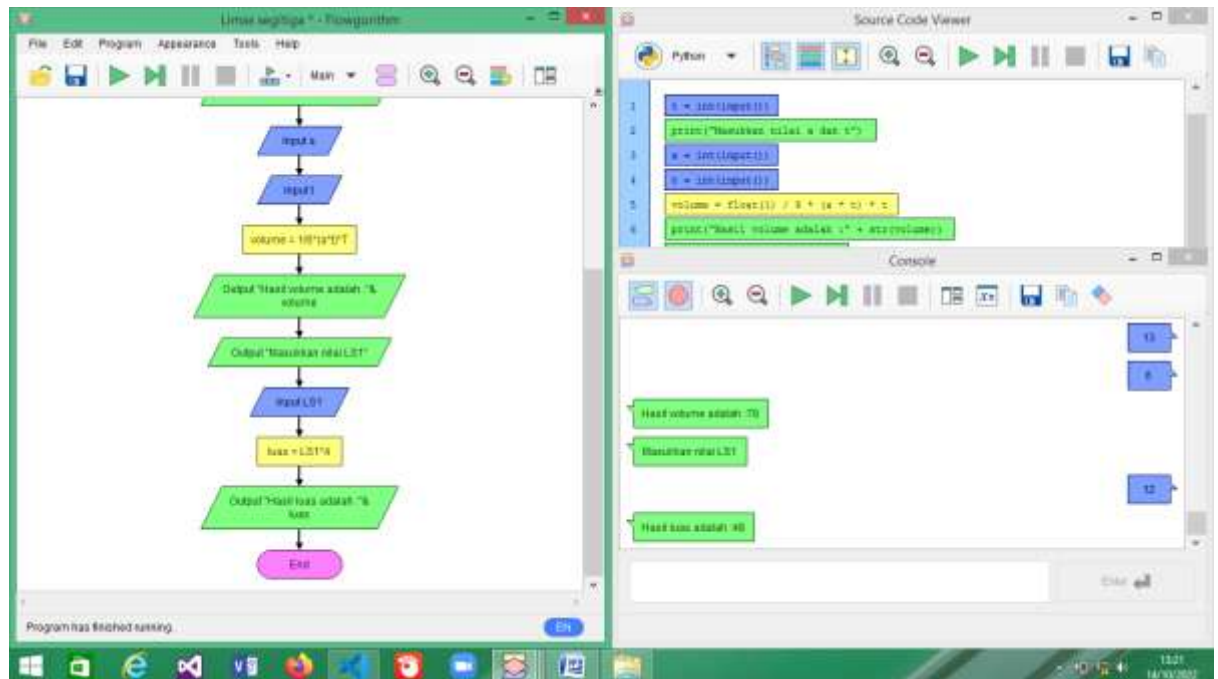
Console Output (Right):

```

Masukkan nilai l: 10
Masukkan nilai p dan t: 5
Hasil volume adalah: 70
    
```

The console also shows a prompt: "Please enter a value of type Integer for LST".

Luas :



VS-Code

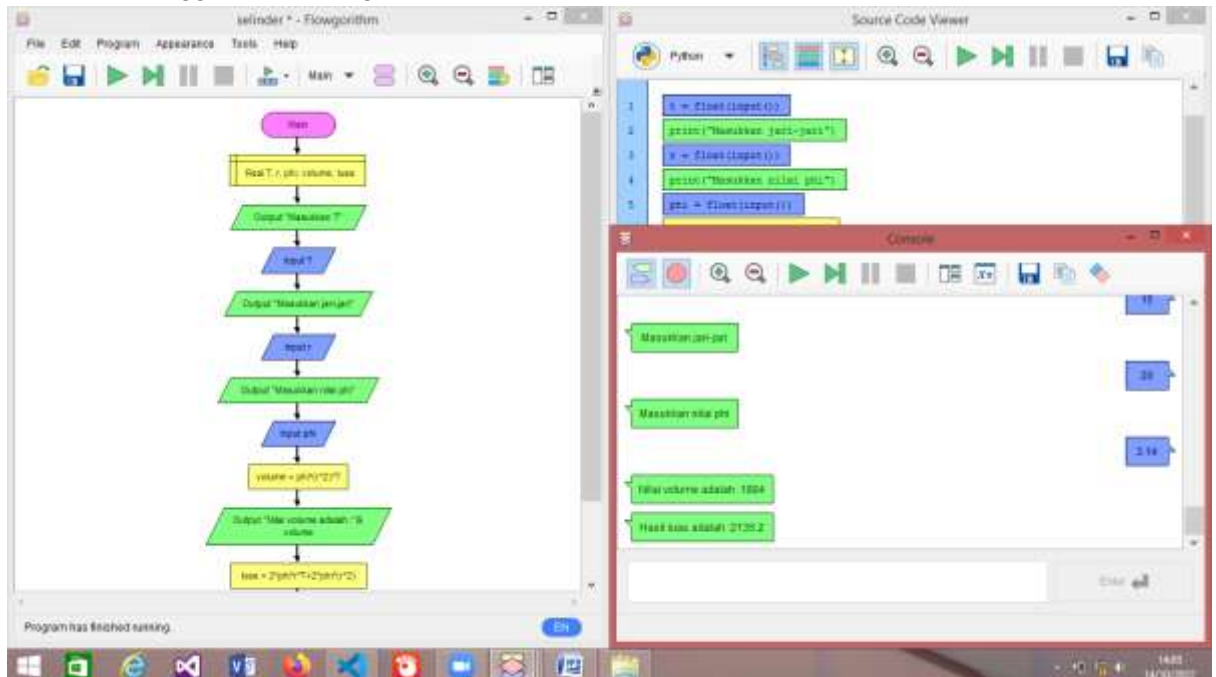
The image shows a Windows desktop with a VS-Code window titled 'Limas segitiga.py - Visual Studio Code'. The editor displays the following Python code:

```
1 print("Masukkan nilai t")
2 t = int(input())
3 print("Masukkan nilai a dan t")
4 a = int(input())
5 t = int(input())
6 volume = float(1) / 3 * (a * t) * t
7 print("Hasil volume adalah :<math>1/3 * t * t * t</math>")
8 print("Masukkan nilai L1")
9 L1 = int(input())
10 luas = L1 * 4
11 print("Hasil luas adalah :<math>L1 * 4</math>")
12
```

On the right, the 'TERMINAL' window shows the program's execution with inputs 70, 8, and 12, resulting in volume 170.0 and surface area 140.

6. Selinder

Flowchart menggunakan Flowgorithm



VS-Code

The image shows a Visual Studio Code editor window with a Python file named 'selinder.py'. The code is as follows:

```
1 print("Masukkan T")
2 t = float(input())
3 print("Masukkan jari-jari")
4 r = float(input())
5 print("Masukkan nilai phi")
6 phi = float(input())
7 volume = phi * (r * r) / 2
8 print("Nilai volume adalah :<math>V</math> volume")
9 luas = 2 * phi * r * r / 2
10 print("Hasil luas adalah :<math>L</math> luas")
11
```

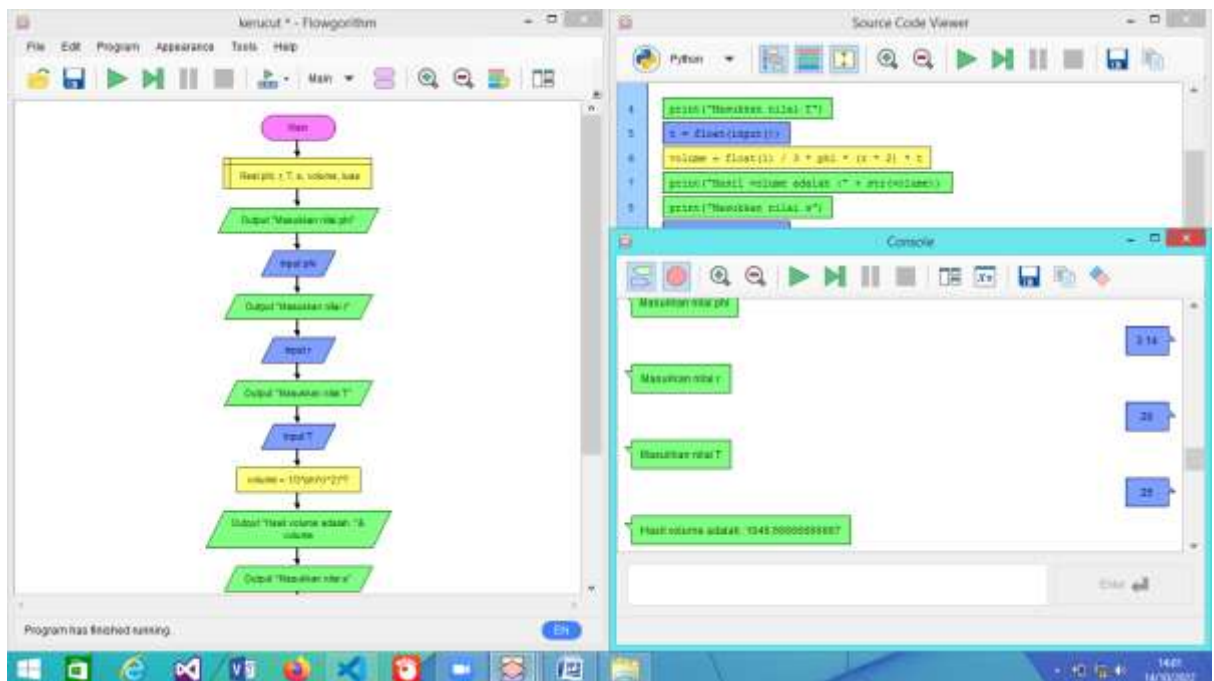
On the right side of the editor, there is a 'Python' output window showing the execution results:

```
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation

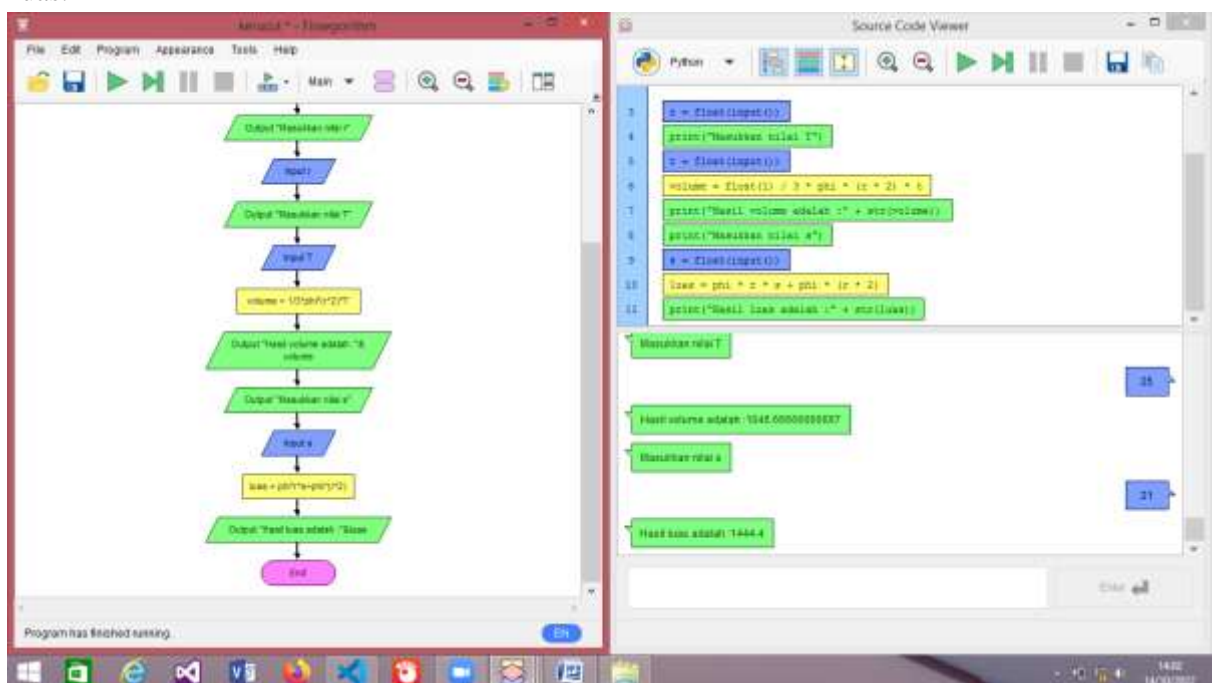
PS C:\Users\USER> & C:\Users\USER\AppData\Local\Microsoft\Windows\PowerShell\PowerShell.exe -Command "python selinder.py"
Masukkan T
20
Masukkan jari-jari
20
Masukkan nilai phi
3.14
```


7. Kerucut

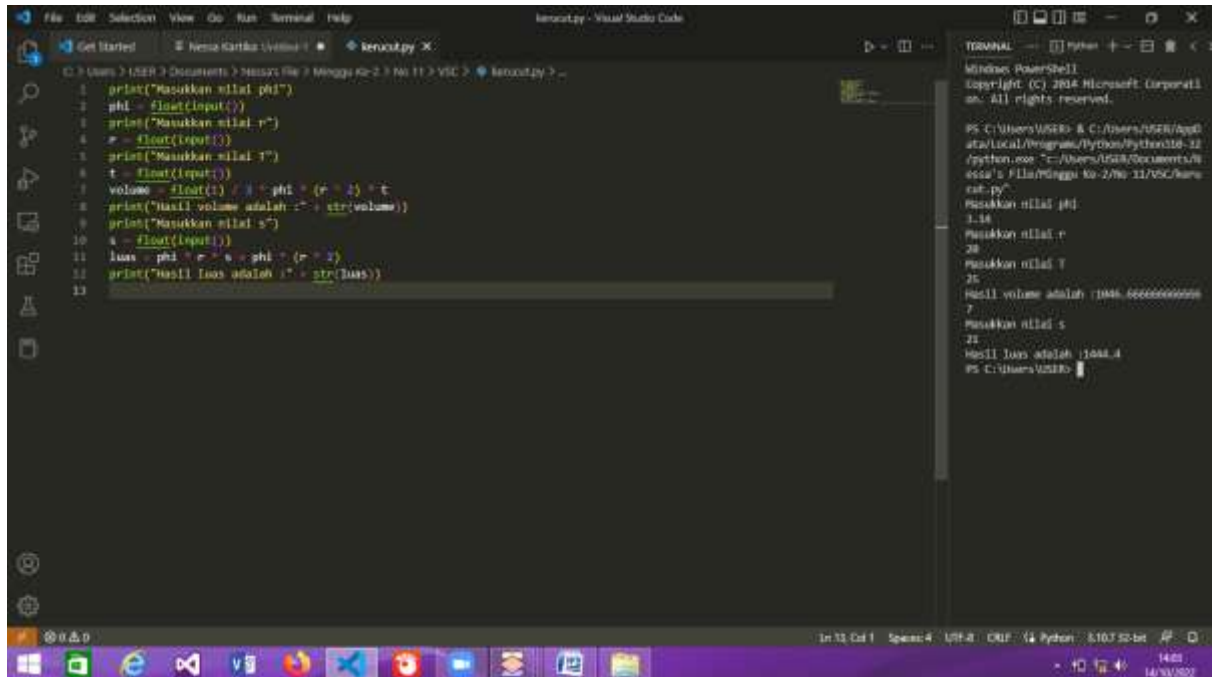
Flowchart menggunakan Flowgorithm
Volume



Luas:



VS-Code



```

1 print("Masukkan nilai phi")
2 phi = float(input())
3 print("Masukkan nilai r")
4 r = float(input())
5 print("Masukkan nilai t")
6 t = float(input())
7 volume = float(4) / 3 * phi * (r ** 3) * t
8 print("Hasil volume adalah : " + str(volume))
9 print("Masukkan nilai s")
10 s = float(input())
11 luas = phi * s * s * phi * (s ** 2)
12 print("Hasil luas adalah : " + str(luas))
13

```

Terminal Output:

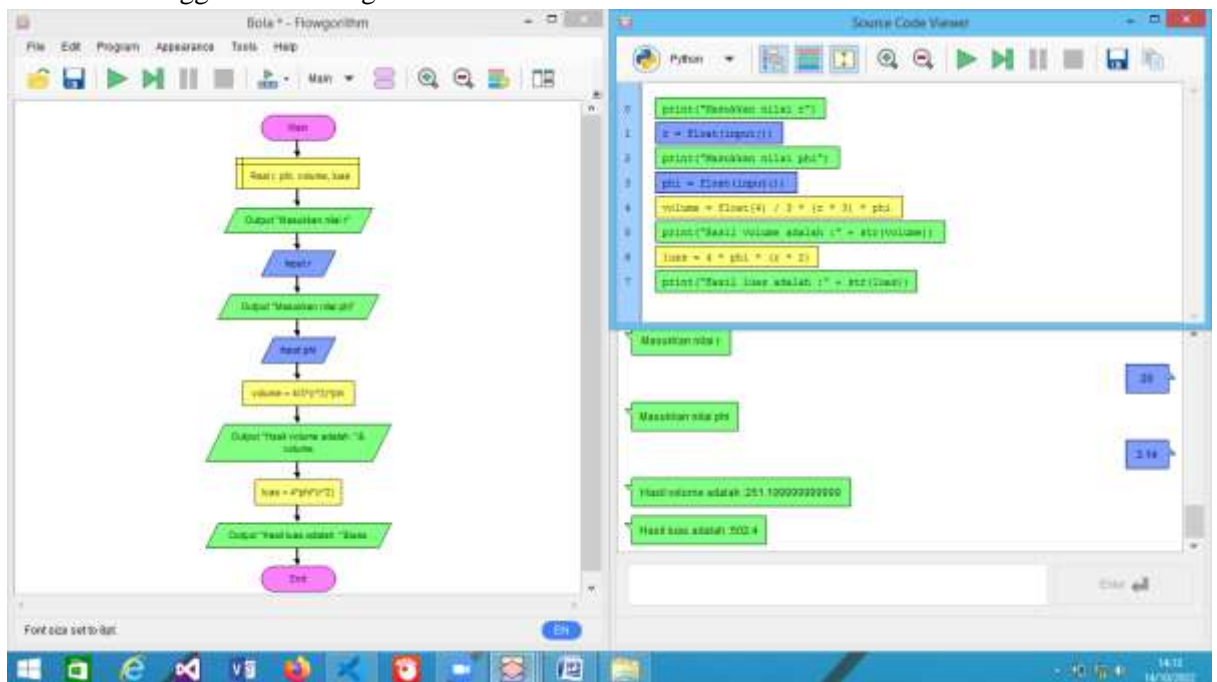
```

PS C:\Users\USER> .\kencat.py
Masukkan nilai phi
3.14
Masukkan nilai r
20
Masukkan nilai t
25
Hasil volume adalah : 1044.0000000000000
Masukkan nilai s
21
Hasil luas adalah : 1044.4
PS C:\Users\USER>

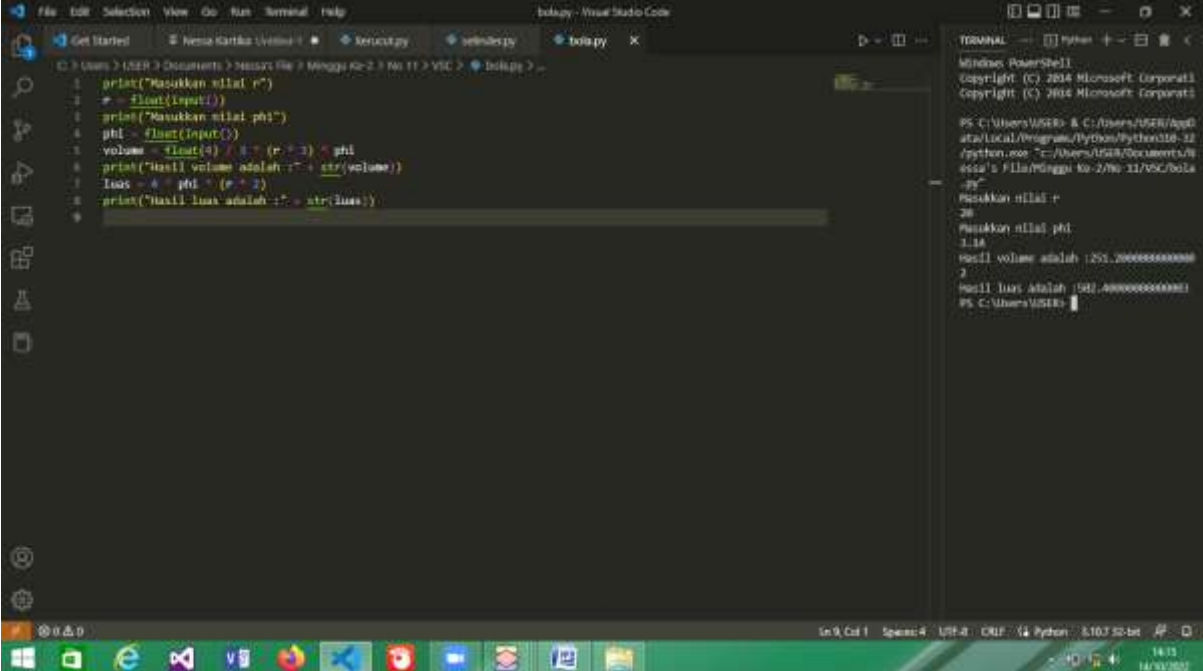
```

8. Bola

Flowchart menggunakan Flowgorithm



VS-Code



The image shows a screenshot of the Visual Studio Code (VS Code) editor interface. The editor is open to a file named `bolap.py` located at `C:\Users\USER\Documents\bolap.py`. The code in the editor is a Python script that calculates the volume and surface area of a sphere based on a radius input.

```
1 print("Masukkan nilai r")
2 r = float(input())
3 print("Masukkan nilai phi")
4 phi = float(input())
5 volume = float(4 / 3 * (r ** 3) * phi)
6 print("Hasil volume adalah : " + str(volume))
7 luas = 4 * phi * (r ** 2)
8 print("Hasil luas adalah : " + str(luas))
9
```

The terminal window on the right shows the output of the script. It prompts for the radius `r` and the value of `phi`, then calculates and displays the volume and surface area.

```
Microsoft PowerShell
Copyright (C) 2014 Microsoft Corporation
Copyright (C) 2014 Microsoft Corporation

PS C:\Users\USER> & C:\Users\USER\AppData\Local\Programs\Python\Python311\python.exe "%cd%\Documents\bolap.py"
Masukkan nilai r
30
Masukkan nilai phi
3.14
Hasil volume adalah :251.20000000000006
2
Hasil luas adalah :942.4000000000001
PS C:\Users\USER>
```

The status bar at the bottom indicates the current file is `bolap.py`, line 9, column 0, with a UTF-8 encoding and 32-bit architecture.