

Nama : Rally Raymanda

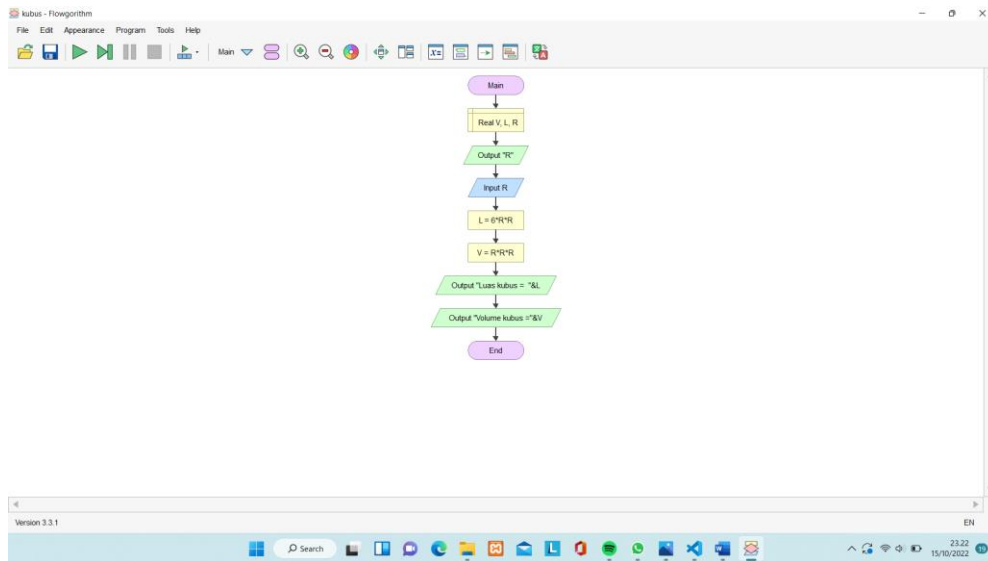
Nim : 211001012

Kelas : D

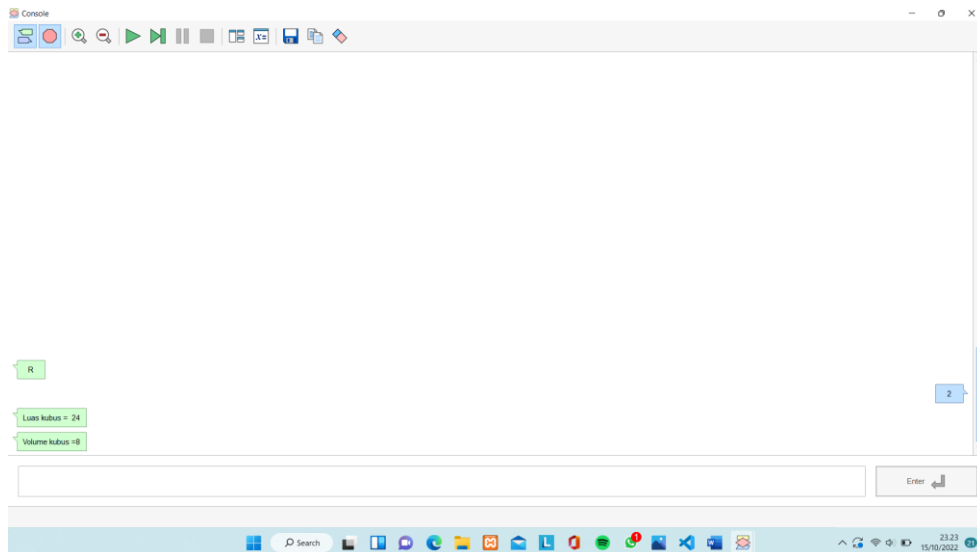
➤ Flowchart Bangun Ruang

1. Kubus

• Praktik

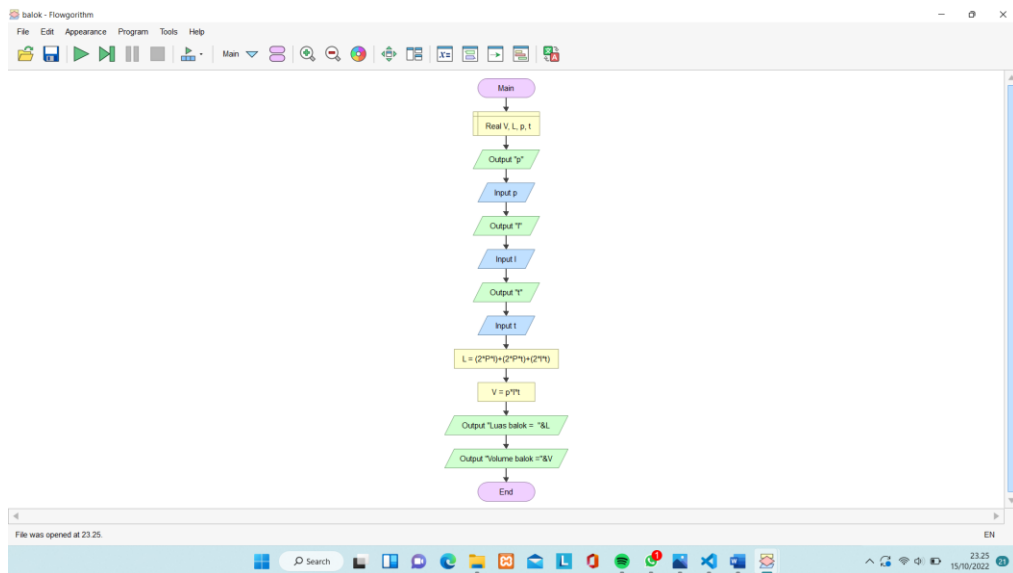


• Run

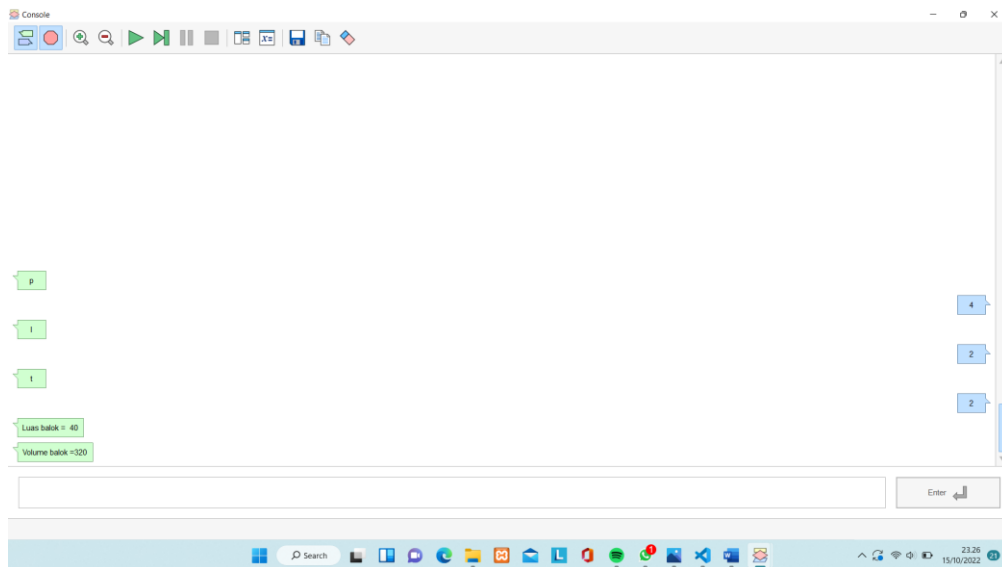


## 2. Balok

- Praktik

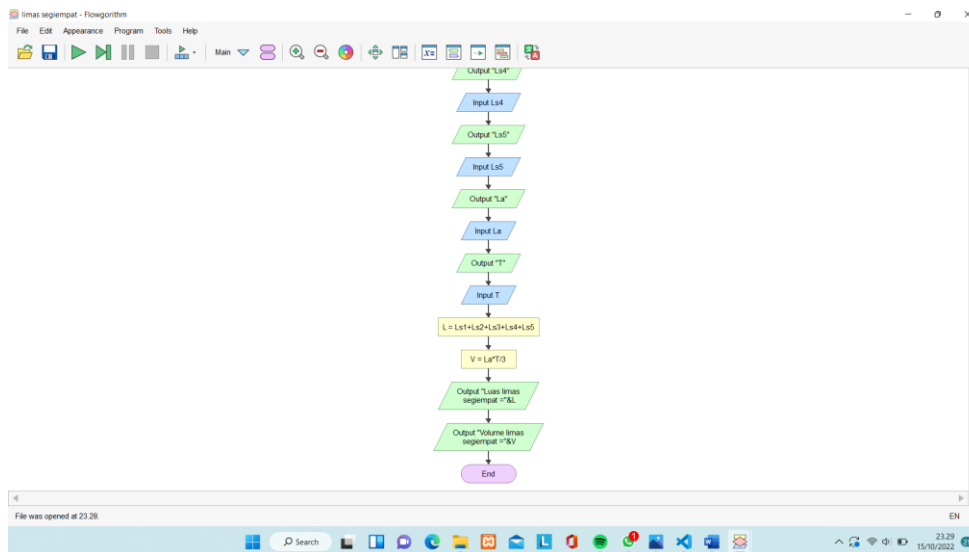
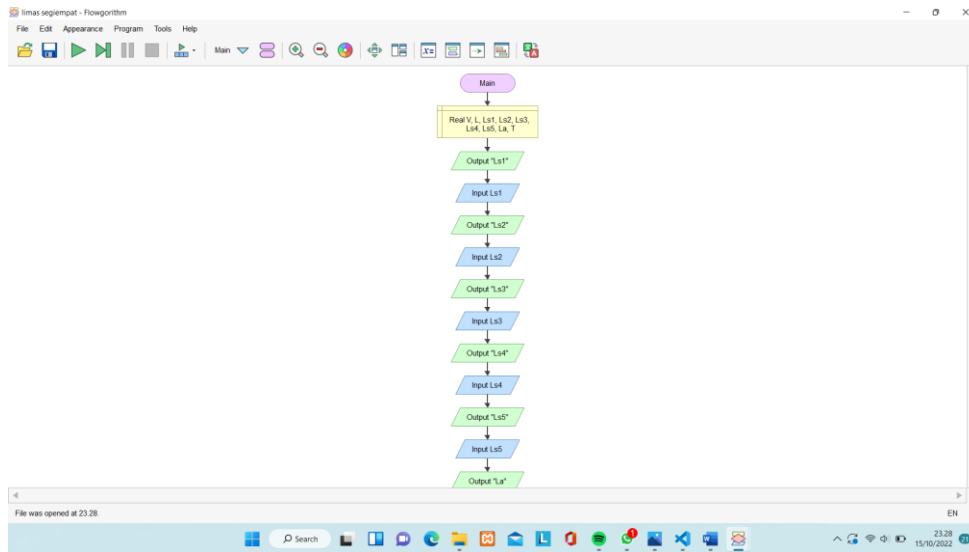


- Run

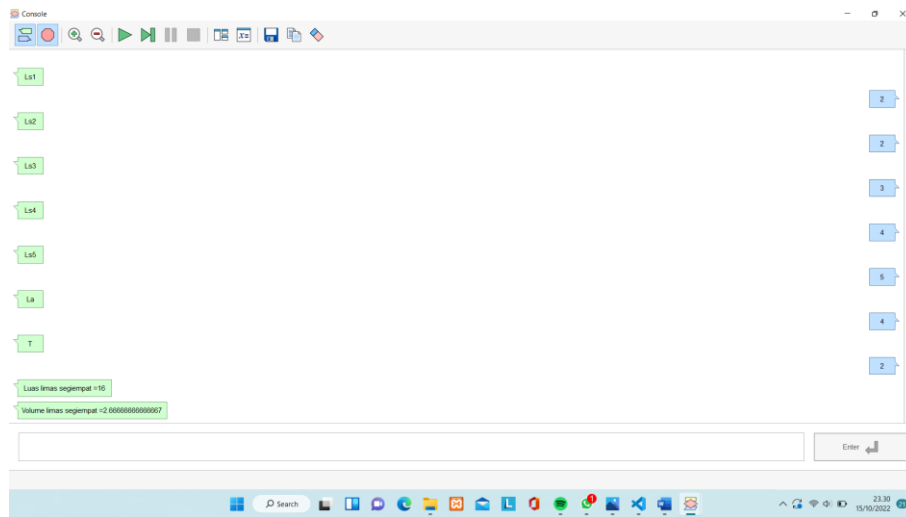


### 3. Limas Segiempat

- Praktik

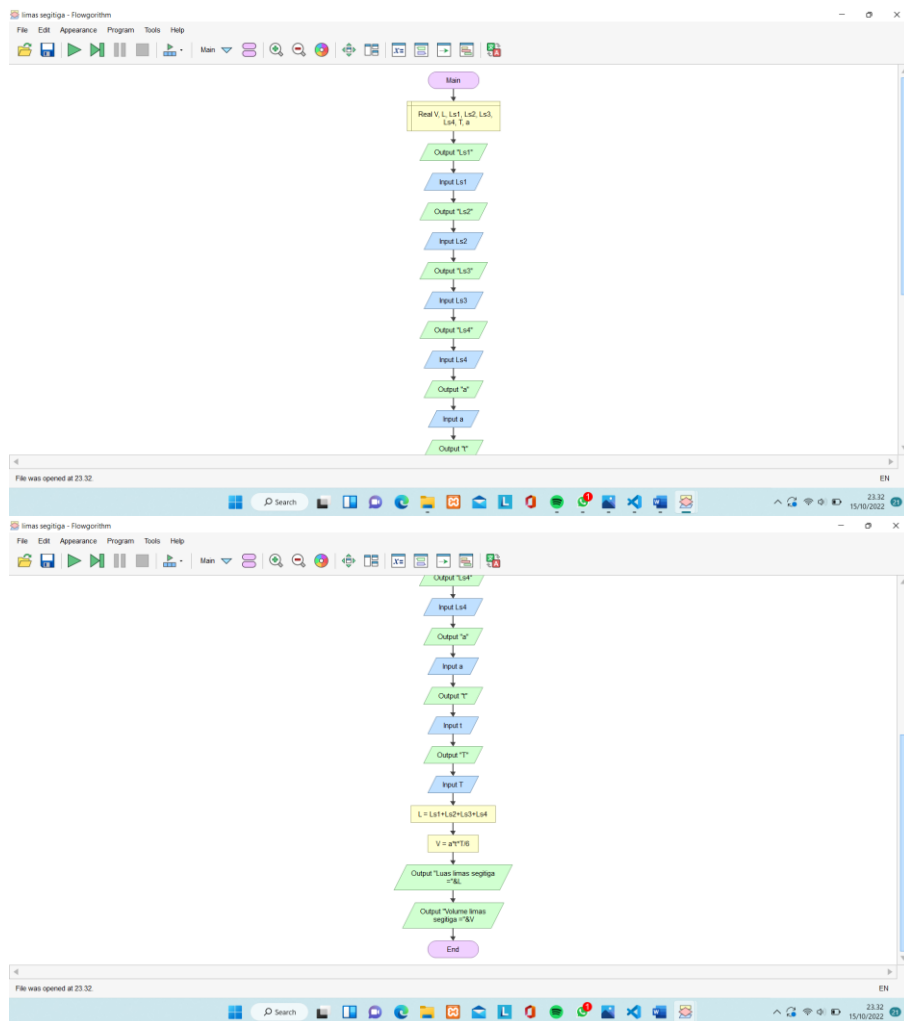


- Run

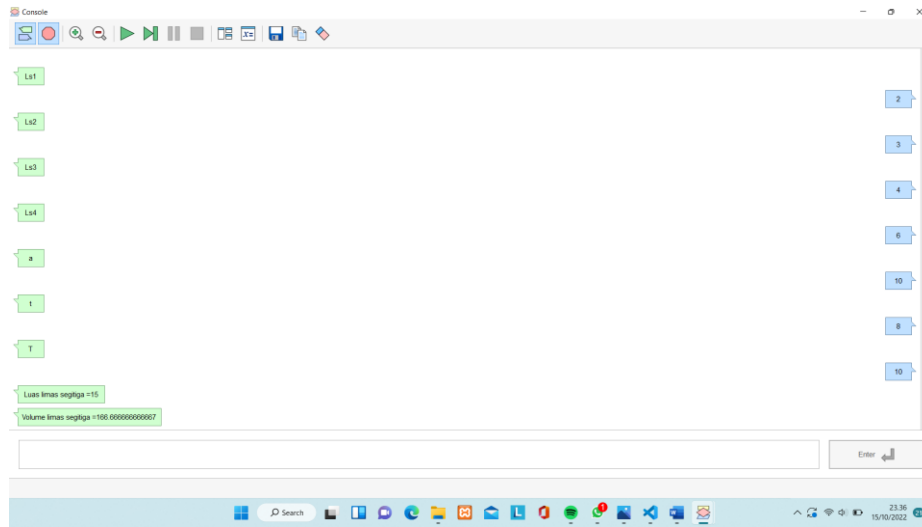


#### 4. Limas Segitiga

- Praktik

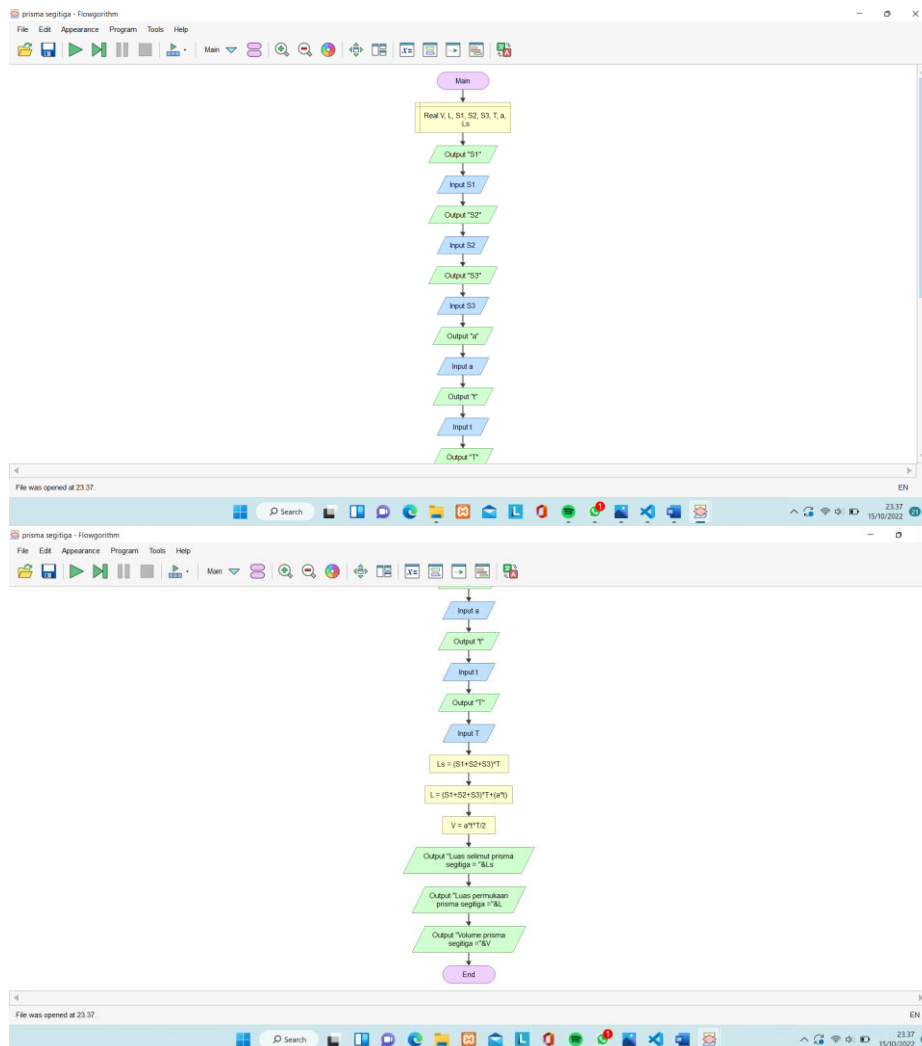


- Run

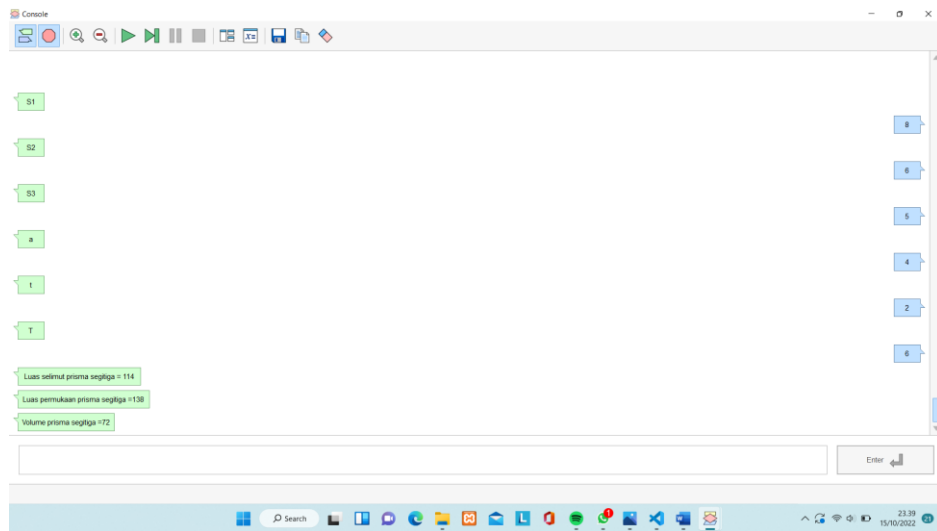


## 5. Prisma Segitiga

- Praktik

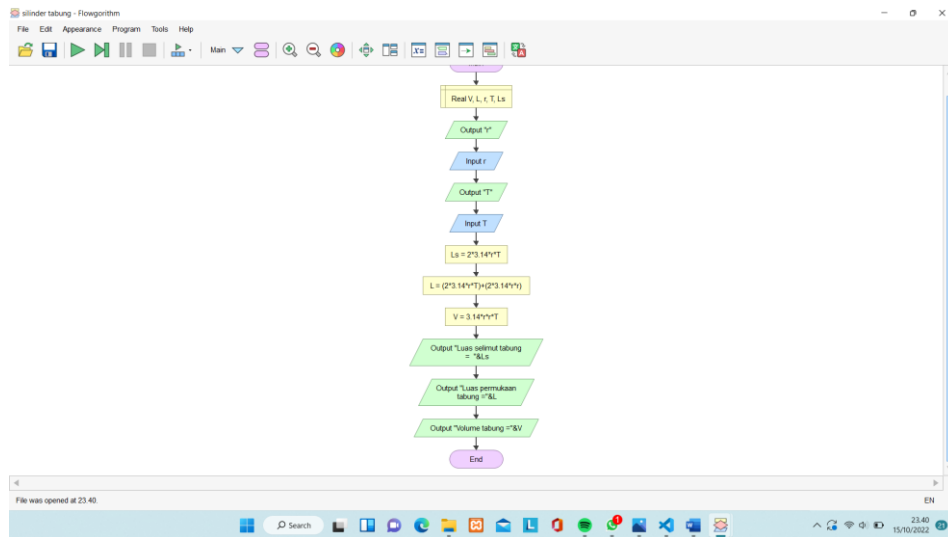


- Run

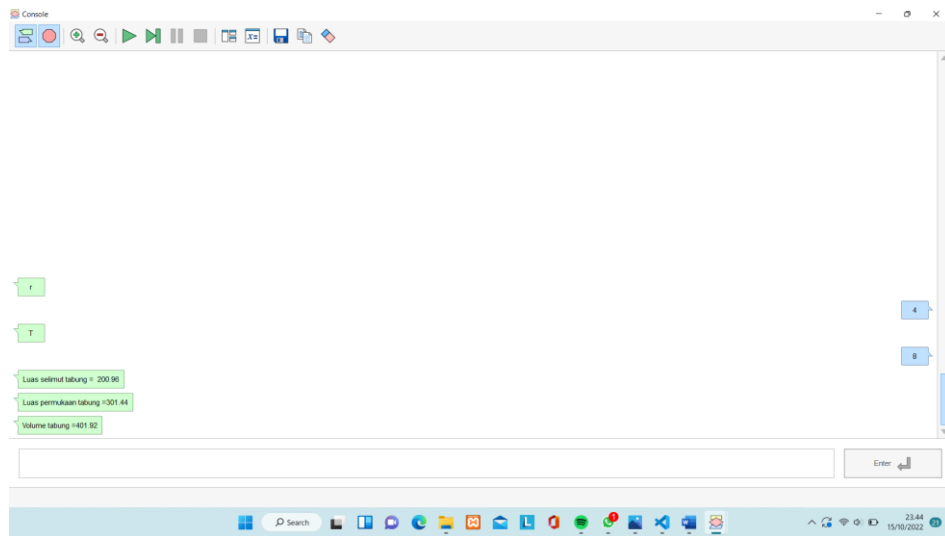


## 6. Selinder Tabung

- Praktik

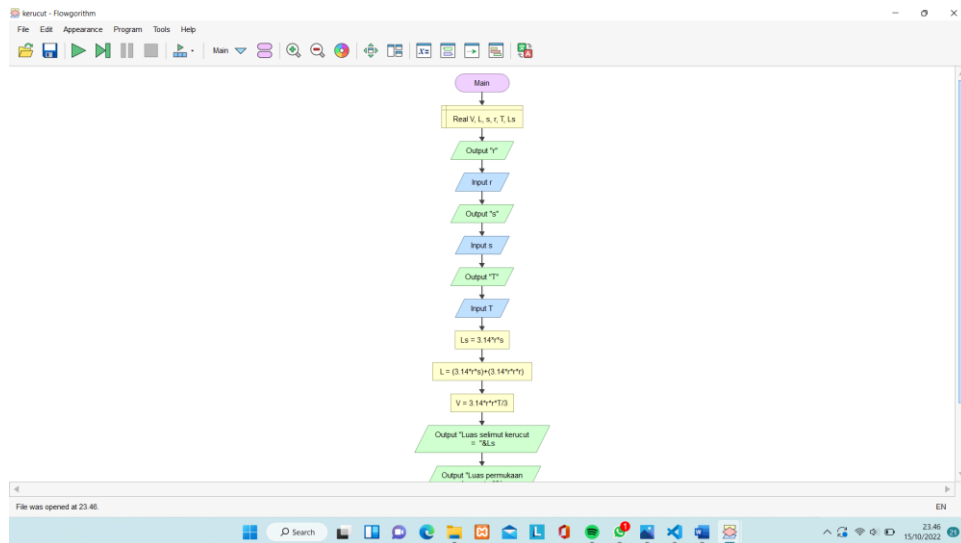


- Run

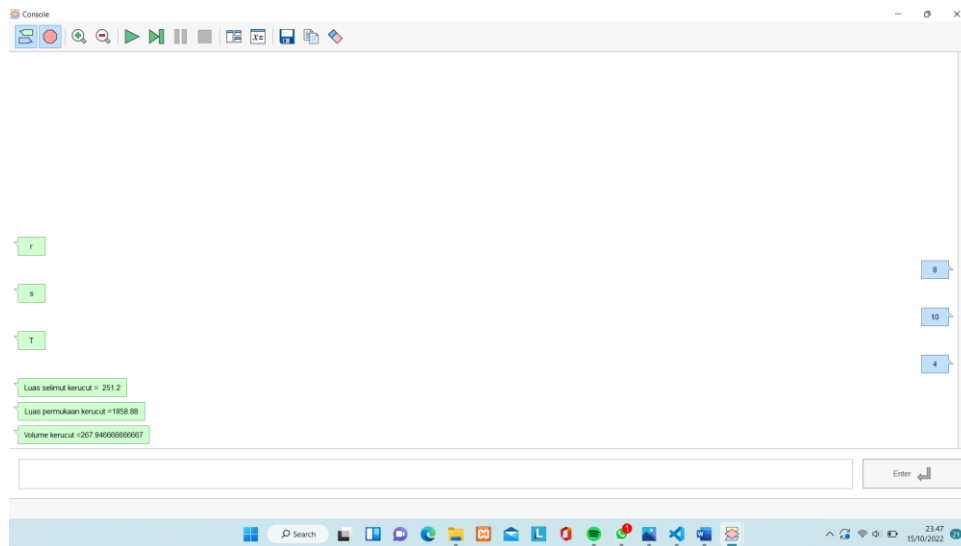


## 7. Kerucut

- Praktik

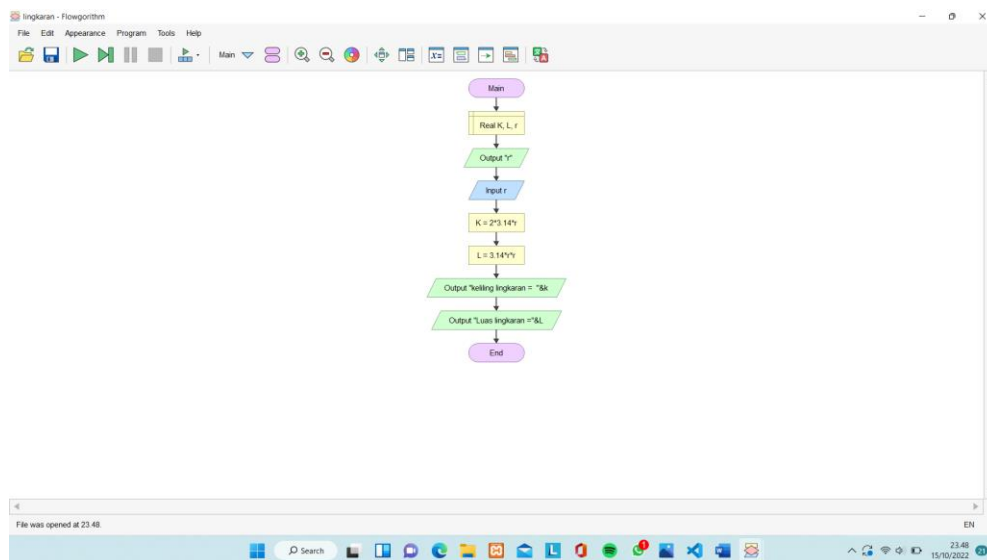


- Run



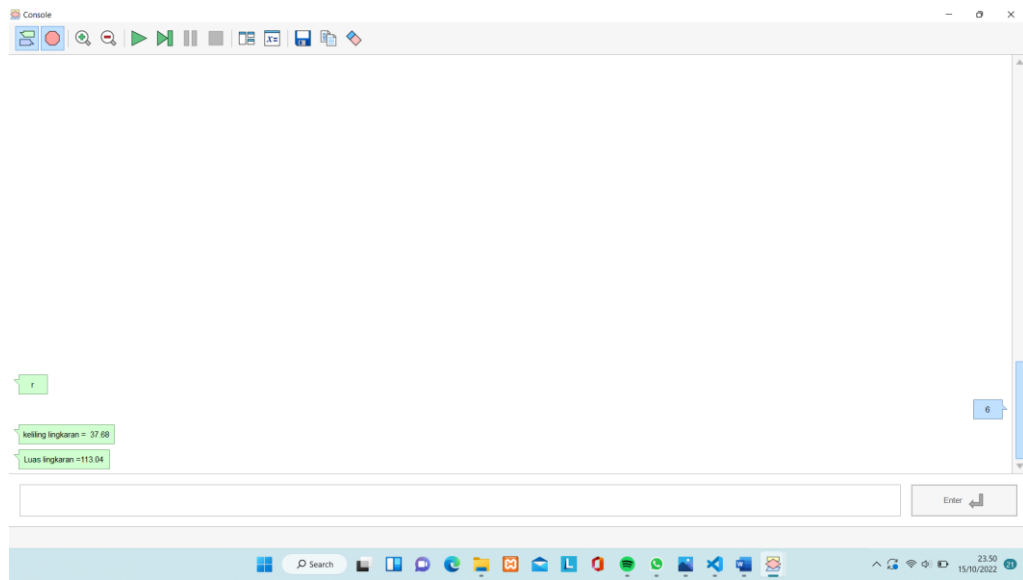
## 8. Bola

- Praktik



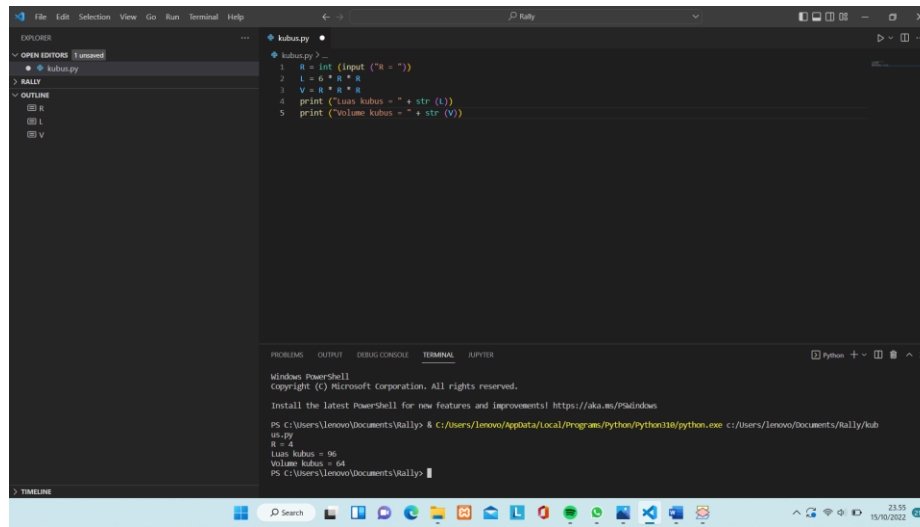


- Run



## ➤ Python Bangun Ruang

### 1. Kubus



```
File Edit Selection View Go Run Terminal Help
kubus.py
1 R = int(input("R = "))
2 L = 6 * R * R
3 V = R * R * R
4 print("Luas kubus = " + str(L))
5 print("Volume kubus = " + str(V))

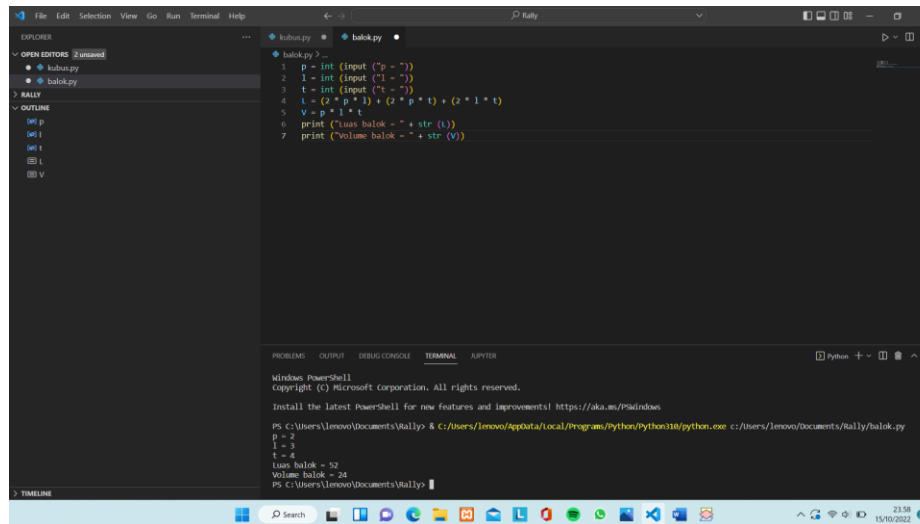
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python

Windows PowerShell
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PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Program\Python\Python310\python.exe c:\Users\lenovo\Documents\Rally\kubus.py
R = 4
Luas kubus = 96
Volume kubus = 64
PS C:\Users\lenovo\Documents\Rally>
```

### 2. Balok



```
File Edit Selection View Go Run Terminal Help
kubus.py balok.py
1 p = int(input("p = "))
2 l = int(input("l = "))
3 t = int(input("t = "))
4 L = (2 * p * l) + (2 * p * t) + (2 * l * t)
5 V = p * l * t
6 print("Luas balok = " + str(L))
7 print("Volume balok = " + str(V))

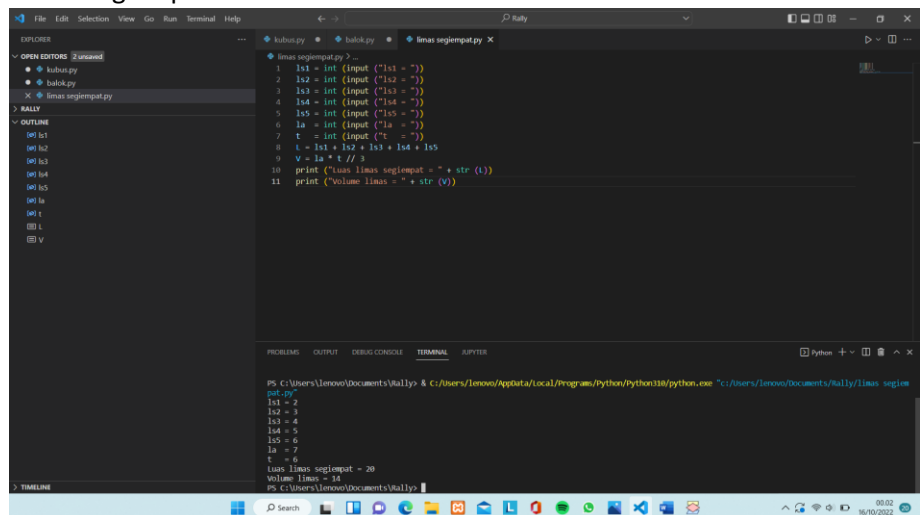
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PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Program\Python\Python310\python.exe c:\Users\lenovo\Documents\Rally\balok.py
p = 2
l = 3
t = 4
Luas balok = 52
Volume balok = 24
PS C:\Users\lenovo\Documents\Rally>
```

### 3. Limas Segiempat

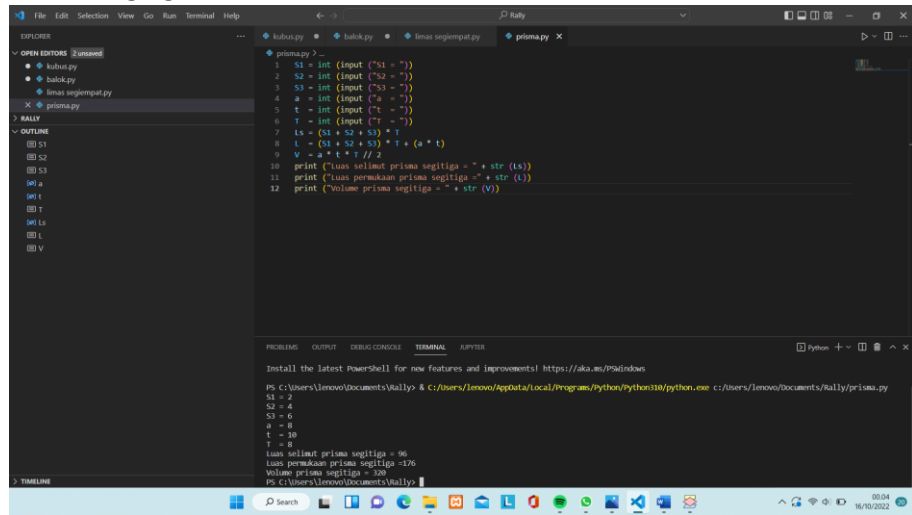


```
File Edit Selection View Go Run Terminal Help
kubus.py balok.py limas segiempat.py
1 l1 = int(input("l1 = "))
2 l2 = int(input("l2 = "))
3 l3 = int(input("l3 = "))
4 l4 = int(input("l4 = "))
5 l5 = int(input("l5 = "))
6 la = int(input("la = "))
7 t = int(input("t = "))
8 L = l1 + l2 + l3 + l4 + l5
9 V = la * t // 3
10 print("Luas limas segiempat = " + str(L))
11 print("Volume limas = " + str(V))

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Python

PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Program\Python\Python310\python.exe "c:\Users\lenovo\Documents\Rally\limas segiempat.py"
l1 = 2
l2 = 3
l3 = 4
l4 = 5
l5 = 6
la = 7
t = 6
Luas limas segiempat = 20
Volume limas = 14
PS C:\Users\lenovo\Documents\Rally>
```

#### 4. Prisma Segitiga

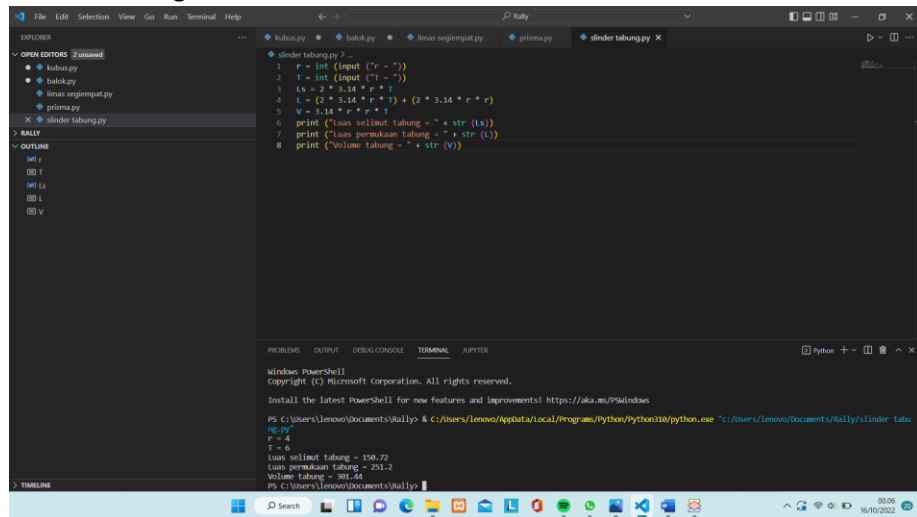


```
File Edit Selection View Go Run Terminal Help
prisma.py
1 s1 = int(input("s1 = "))
2 s2 = int(input("s2 = "))
3 s3 = int(input("s3 = "))
4 a = int(input("a = "))
5 t = int(input("t = "))
6 t = int(input("t = "))
7 ls = (s1 + s2 + s3) * t
8 l = (s1 + s2 + s3) * t + (a * t)
9 v = a * t * t // 2
10 print("luas selimut prisma segitiga = " + str(ls))
11 print("luas permukaan prisma segitiga = " + str(l))
12 print("Volume prisma segitiga = " + str(v))

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Python + -

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PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe c:/Users/lenovo/Documents/Rally/prisma.py
s1 = 2
s2 = 4
s3 = 6
a = 8
t = 30
t = 8
luas selimut prisma segitiga = 96
luas permukaan prisma segitiga = 176
Volume prisma segitiga = 100
PS C:\Users\lenovo\Documents\Rally>
```

#### 5. Slinder Tabung



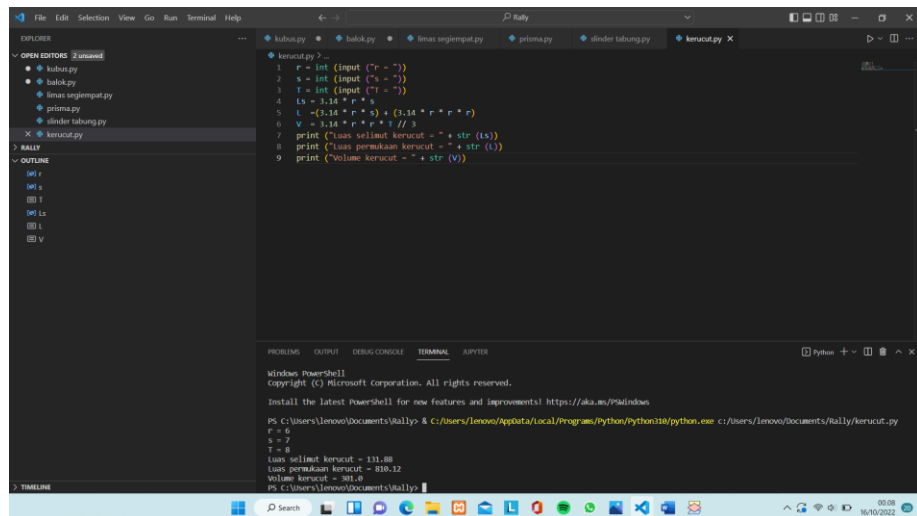
```
File Edit Selection View Go Run Terminal Help
slinder tabung.py
1 r = int(input("r = "))
2 t = int(input("t = "))
3 ls = 2 * 3.14 * r * t
4 l = (2 * 3.14 * r * t) + (2 * 3.14 * r * r)
5 v = 3.14 * r * r * t
6 print("luas selimut tabung = " + str(ls))
7 print("luas permukaan tabung = " + str(l))
8 print("Volume tabung = " + str(v))

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PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/lenovo/Documents/Rally/slinder tabung.py"
r = 4
t = 6
luas selimut tabung = 150.72
luas permukaan tabung = 251.2
Volume tabung = 301.44
PS C:\Users\lenovo\Documents\Rally>
```

#### 6. Kerucut



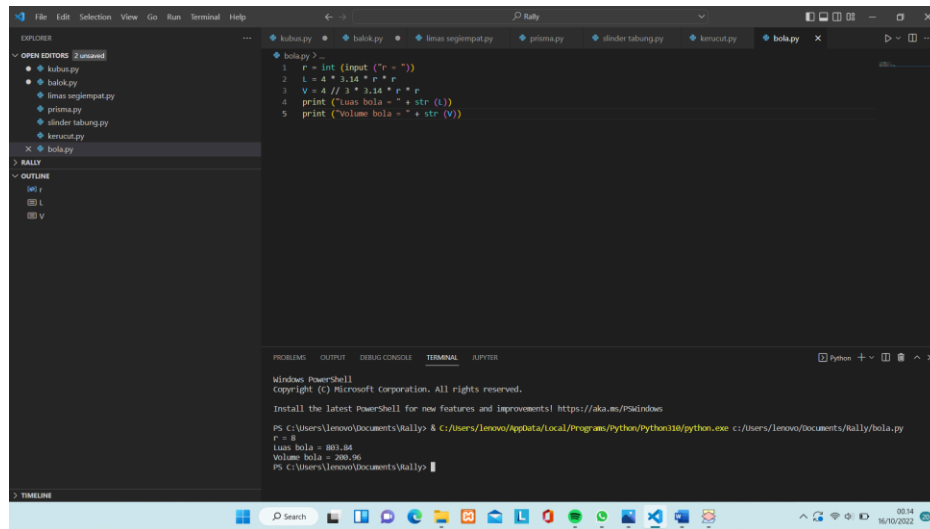
```
File Edit Selection View Go Run Terminal Help
kerucut.py
1 r = int(input("r = "))
2 s = int(input("s = "))
3 t = int(input("t = "))
4 ls = 3.14 * r * s
5 l = ((3.14 * r * s) + (3.14 * r * r))
6 v = 3.14 * r * r * t // 3
7 print("luas selimut kerucut = " + str(ls))
8 print("luas permukaan kerucut = " + str(l))
9 print("Volume kerucut = " + str(v))

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PS C:\Users\lenovo\Documents\Rally> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe c:/Users/lenovo/Documents/Rally/kerucut.py
r = 6
s = 7
t = 8
luas selimut kerucut = 131.88
luas permukaan kerucut = 818.12
Volume kerucut = 301.44
PS C:\Users\lenovo\Documents\Rally>
```

## 7. Bola



The screenshot shows the VS Code editor with a file named `bola.py` open. The code calculates the volume of a sphere based on user input for radius `r`. The formulas used are  $L = 4 \times \pi \times r^2$  and  $V = \frac{4}{3} \times \pi \times r^3$ . The terminal shows the execution of the script, where `r = 9` is entered, resulting in `luas bola = 883.84` and `Volume bola = 288.96`.

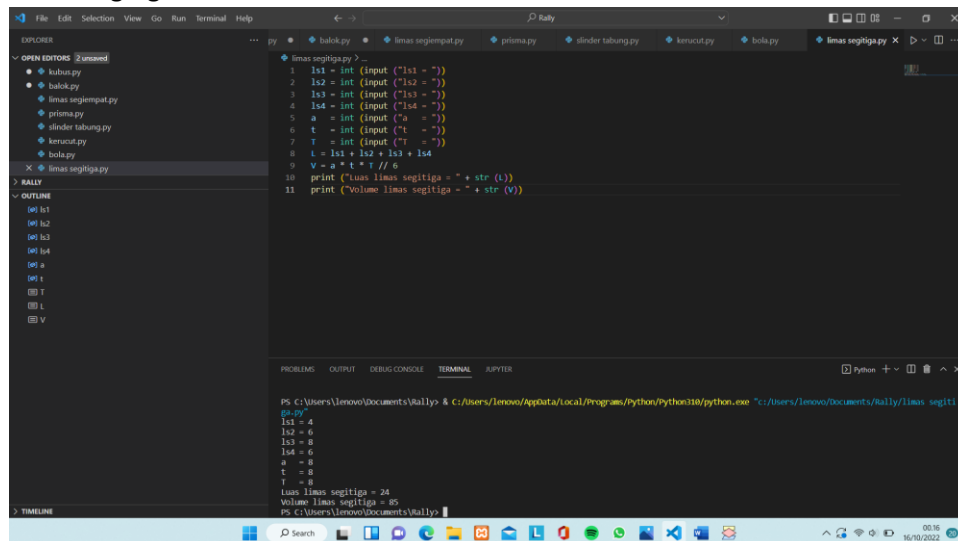
```
1 r = int(input("r = "))
2 L = 4 * 3.14 * r * r
3 V = 4 // 3 * 3.14 * r * r
4 print("luas bola = " + str(L))
5 print("volume bola = " + str(V))
```

```
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PS C:\Users\lenovo\Documents\kally> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe c:/Users/lenovo/Documents/kally/bola.py
r = 9
luas bola = 883.84
Volume bola = 288.96
PS C:\Users\lenovo\Documents\kally>
```

## 8. Limas segitiga



The screenshot shows the VS Code editor with a file named `limas segitiga.py` open. The code calculates the volume of a triangular pyramid based on user input for side lengths `l1`, `l2`, `l3`, `l4`, and height `a`. The formulas used are  $t = \sqrt{l1^2 - l2^2}$ ,  $L = \frac{1}{2} \times l1 \times t$ , and  $V = \frac{1}{3} \times L \times a$ . The terminal shows the execution of the script, where values are entered for `l1`, `l2`, `l3`, `l4`, and `a`, resulting in `Volume limas segitiga = 85`.

```
1 l1 = int(input("l1 = "))
2 l2 = int(input("l2 = "))
3 l3 = int(input("l3 = "))
4 l4 = int(input("l4 = "))
5 a = int(input("a = "))
6 t = int(input("t = "))
7 L = int(input("L = "))
8 L = l1 * l2 + l3 * l4
9 V = a * t * L // 6
10 print("luas limas segitiga = " + str(L))
11 print("Volume limas segitiga = " + str(V))
```

```
PS C:\Users\lenovo\Documents\kally> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/lenovo/Documents/kally/limas segitiga.py"
l1 = 4
l2 = 4
l3 = 6
l4 = 6
a = 8
t = 8
L = 8
luas limas segitiga = 24
Volume limas segitiga = 85
PS C:\Users\lenovo\Documents\kally>
```