

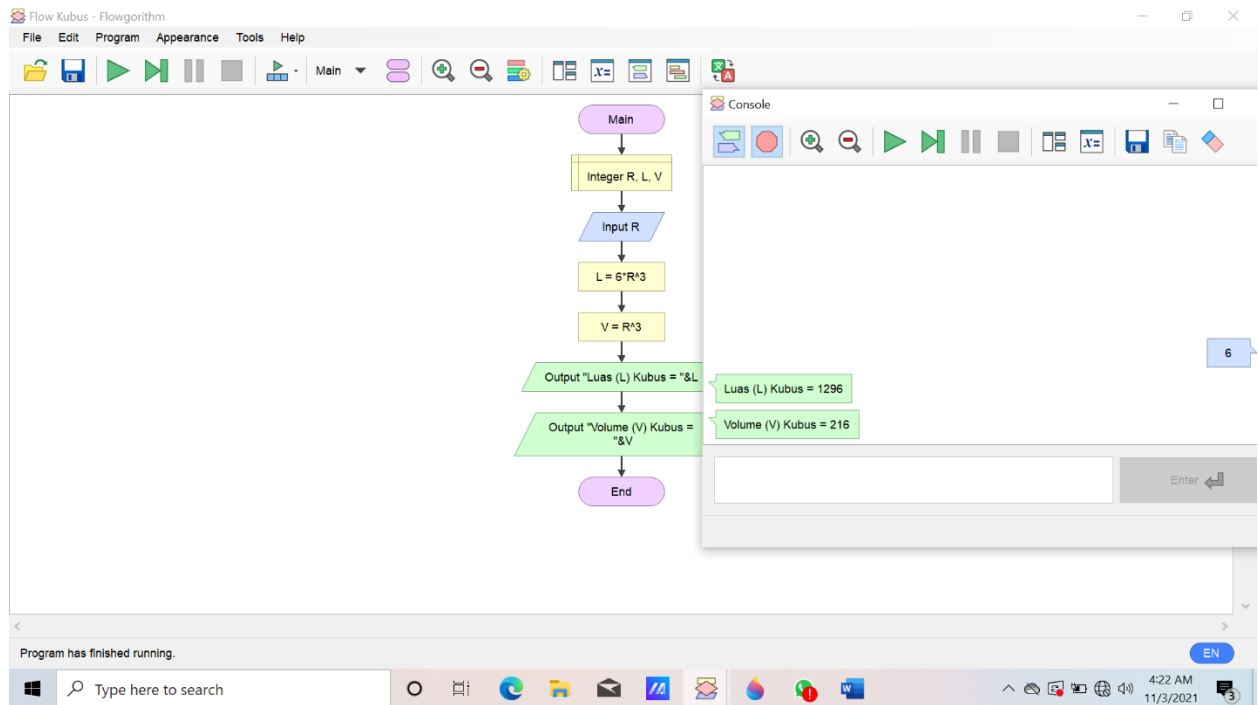
Nama : Arif Annursida

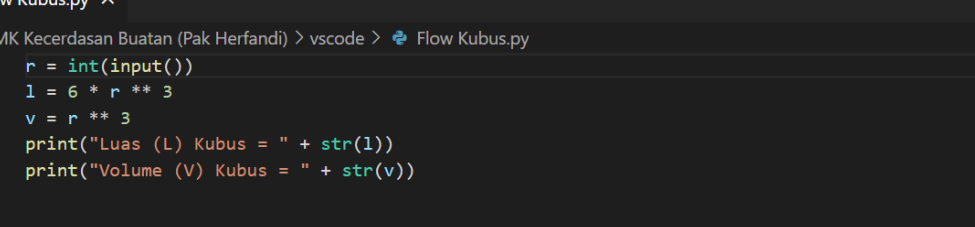
NIM : 20.01.013.045

Kelas : Ai-B

MK : Kecerdasan Buatan

1. KUBUS





```
D:\> MK Kecerdasan Buatan (Pak Herfandi) > vscode > Flow Kubus.py
1  r = int(input())
2  l = 6 * r ** 3
3  v = r ** 3
4  print("Luas (L) Kubus = " + str(l))
5  print("Volume (V) Kubus = " + str(v))
6
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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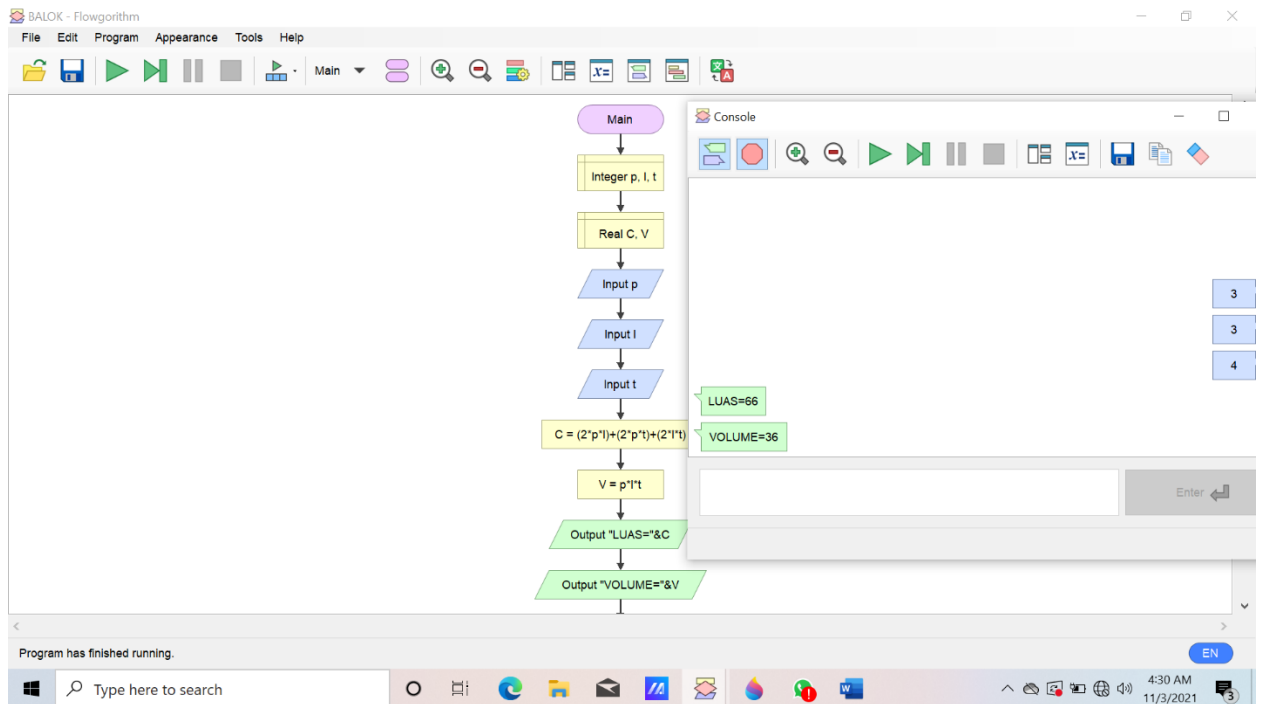
Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/Flow Kubus.py"

6
Luas (L) Kubus = 1296
Volume (V) Kubus = 216
PS C:\Users\USER> 6

Python 3.10.0 64-bit 0 0 0 Python 11

2. BALOK



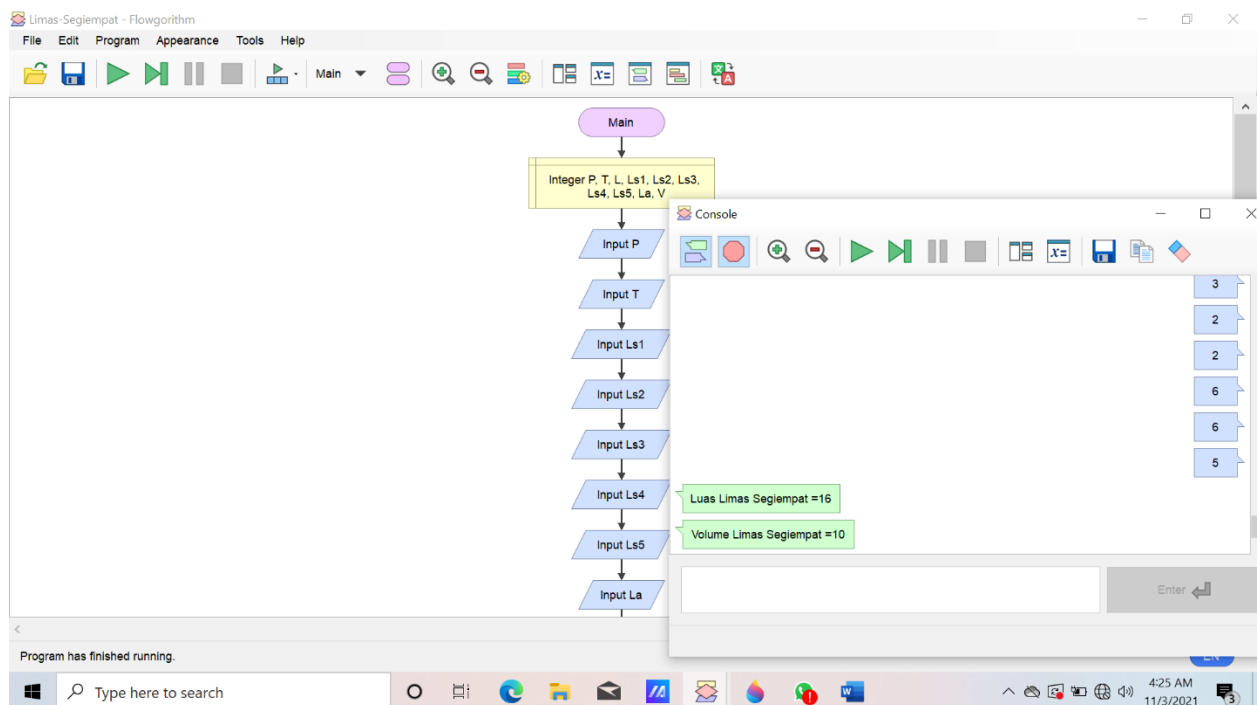
The image shows a Visual Studio Code window with a Python file named `BALOK.py`. The code calculates the surface area and volume of a rectangular prism based on three inputs: `p` (length), `l` (width), and `t` (height). The formulas used are $c = 2 * p * l + 2 * p * t + 2 * l * t$ for surface area and $v = p * l * t$ for volume.

```
1 p = int(input())
2 l = int(input())
3 t = int(input())
4 c = 2 * p * l + 2 * p * t + 2 * l * t
5 v = p * l * t
6 print("LUAS=" + str(c))
7 print("VOLUME=" + str(v))
8
```

The terminal shows the command to run the script and the resulting output:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/BALOK.py"
2
2
2
LUAS=24
VOLUME=8
PS C:\Users\USER>
```

3. LIMAS SEGIEMPAT



File Edit Selection View Go Run Terminal Help

Limas-Segiempat.py - Visual Studio Code

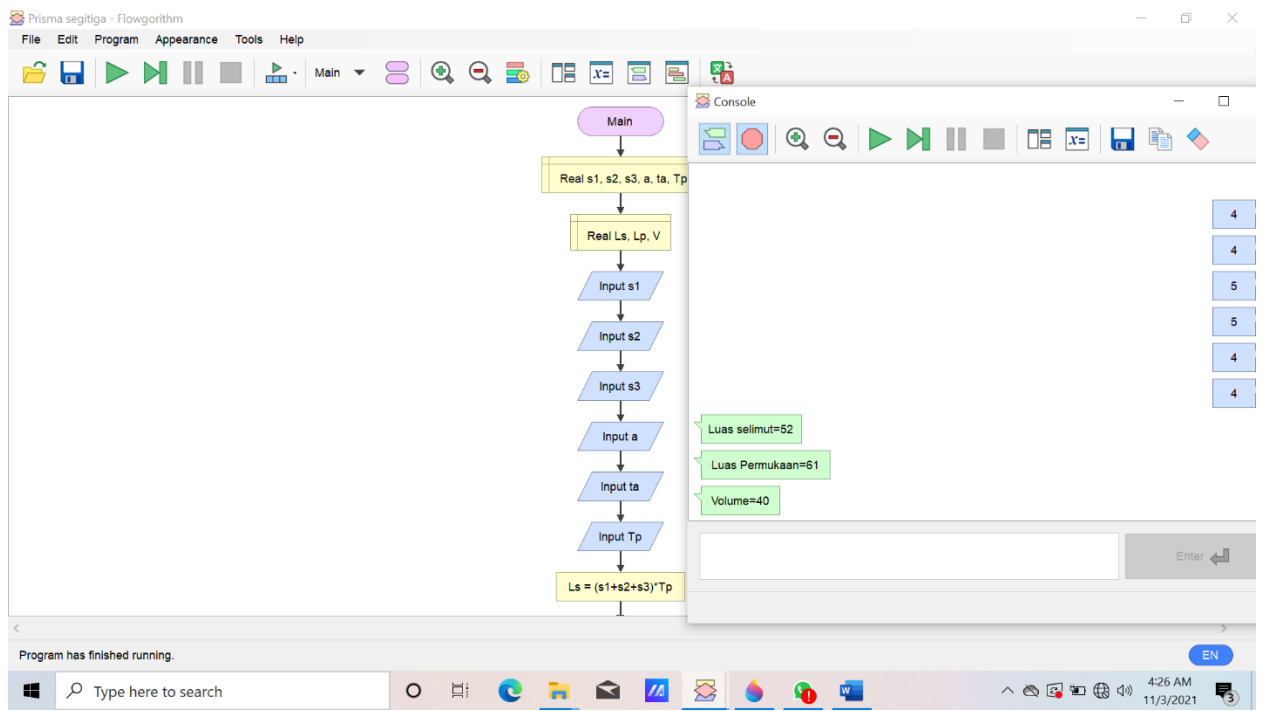
```
1 p = int(input())
2 t = int(input())
3 ls1 = int(input())
4 ls2 = int(input())
5 ls3 = int(input())
6 ls4 = int(input())
7 ls5 = int(input())
8 la = int(input())
9 t = int(input())
10 l = ls1 + ls2 + ls3 + ls4 + ls5
11 v = float(l) / 3 * la * t
12 print("Luas Limas Segiempat =" + str(l))
13 print("Volume Limas Segiempat =" + str(v))
14
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python 3.10.0 64-bit

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

4. PRISMA SEGITIGA



```
Prisma segitiga.py X
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > Prisma segitiga.py
1 s1 = float(input())
2 s2 = float(input())
3 s3 = float(input())
4 a = float(input())
5 ta = float(input())
6 tp = float(input())
7 ls = (s1 + s2 + s3) * tp
8 lp = (s1 + s2 + s3) * tp + a + ta
9 v = float(1) / 2 * a * ta * tp
10 print("Luas selimut=" + str(ls))
11 print("Luas Permukaan=" + str(lp))
12 print("Volume=" + str(v))
13
```

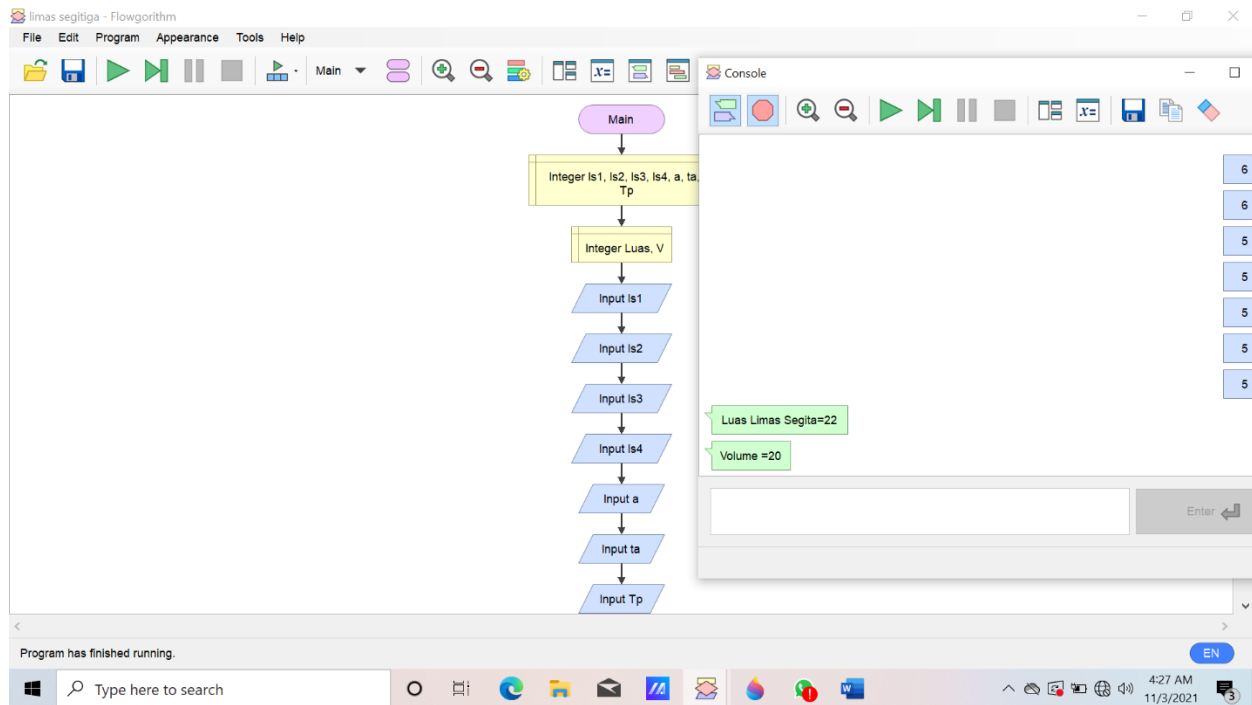
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

code/Prisma segitiga.py"

3
8
6
5
4
3
Luas selimut=51.0
Luas Permukaan=60.0
Volume=30.0
PS C:\Users\USER>

Python 3.10.0 64-bit 0 0 Python Ln 1, Col 1 Spaces: 4 UTF-8 CRLF

5. LIMAS SEGITIGA



```

limas segitiga.py
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > limas segitiga.py
1  ls1 = int(input())
2  ls2 = int(input())
3  ls3 = int(input())
4  ls4 = int(input())
5  a = int(input())
6  ta = int(input())
7  tp = int(input())
8  luas = ls1 + ls2 + ls3 + ls4
9  v = float(1) / 6 * a * ta * tp
10 print("Luas Limas Segita=" + str(luas))
11 print("Volume =" + str(v))
12

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

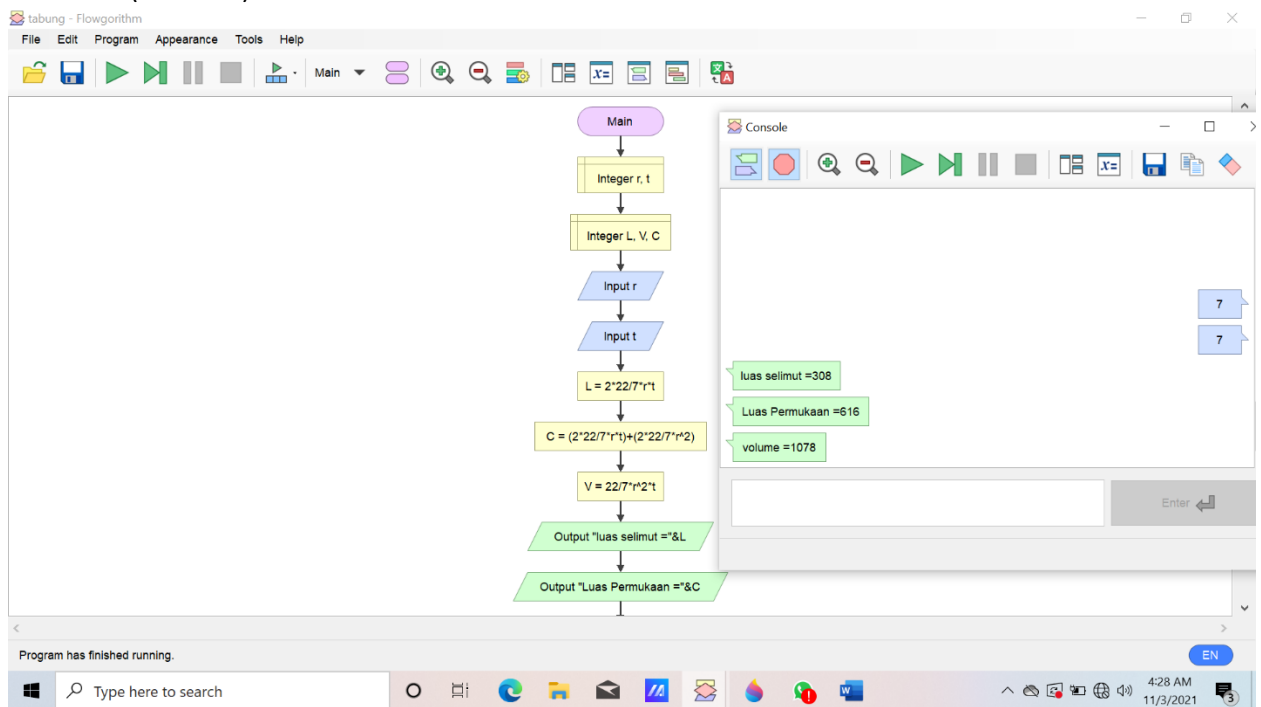
```

code/limas segitiga.py
5
2
8
6
5
9
3
Luas Limas Segita=21
Volume =22.499999999999996
PS C:\Users\USER>

```

Python 3.10.0 64-bit 0 0 Python Ln 1, Col 1 Spaces: 4 UTF-8 CRLF

6. SELINDER (TABUNG)



```
File Edit Selection View Go Run Terminal Help tabung.py - Visual Studio Code

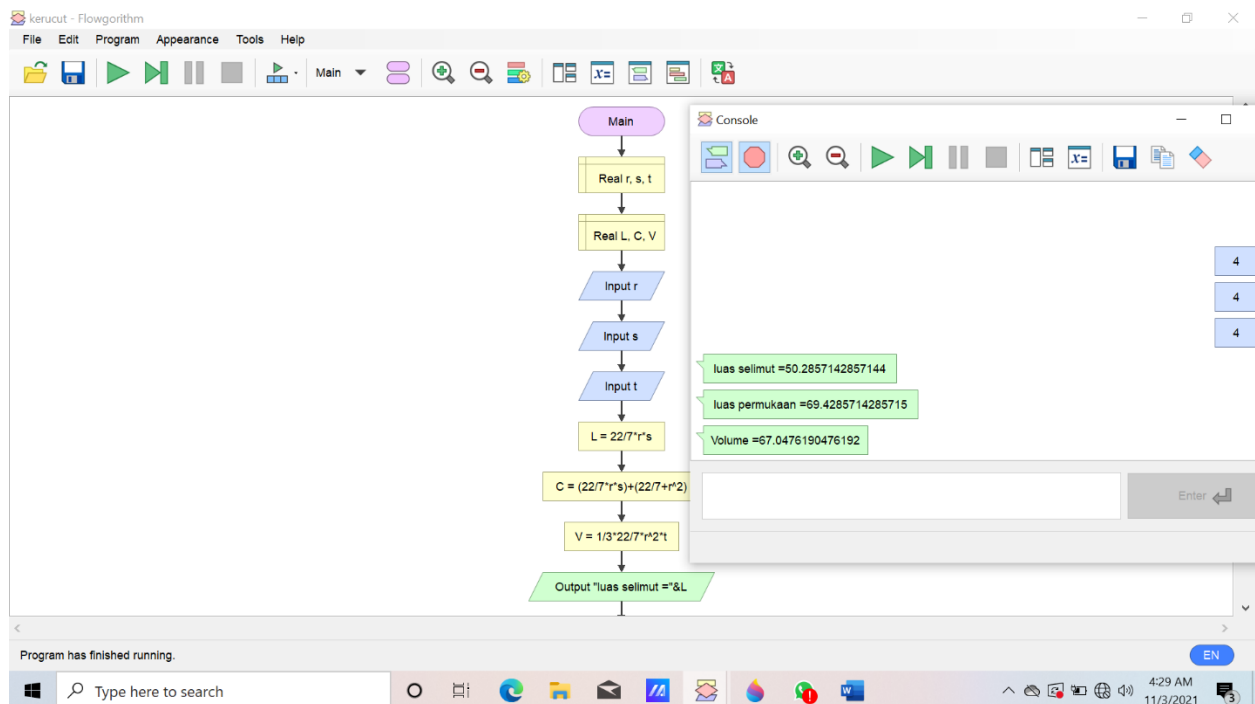
tabung.py X
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > tabung.py
1  r = int(input())
2  t = int(input())
3  l = float(2 * 22) / 7 * r * t
4  c = float(2 * 22) / 7 * r * t + float(2 * 22) / 7 * r ** 2
5  v = float(22) / 7 * r ** 2 * t
6  print("luas selimut =" + str(l))
7  print("Luas Permukaan =" + str(c))
8  print("volume =" + str(v))
9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python + - [ ] [X] ^ X

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

PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vs
code/tabung.py"
6
6
luas selimut =226.28571428571428
Luas Permukaan =452.57142857142856
volume =678.8571428571429
PS C:\Users\USER>
```

7. KERUCUT



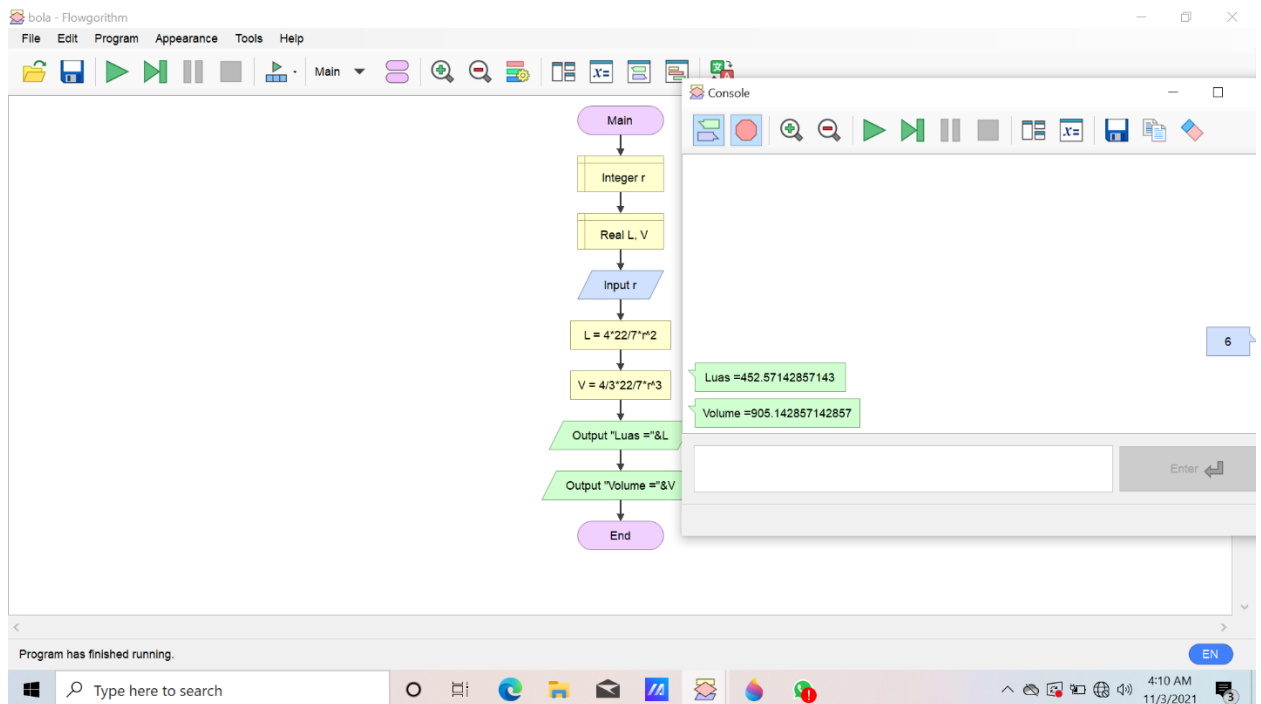
The image shows a Visual Studio Code window with a Python file named `kerucut.py`. The script calculates the lateral surface area (`l`), total surface area (`c`), and volume (`v`) of a cone given a radius `r` and height `t`. The formulas used are:

$$l = \frac{4}{3} \pi r^2 t$$
$$c = \pi r^2 + \pi r \sqrt{r^2 + t^2}$$
$$v = \frac{1}{3} \pi r^2 t$$

The terminal shows the script being executed with the following output:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/kerucut.py"
5
7
3
luas selimut =110.0
luas permukaan =138.14285714285714
Volume =78.57142857142858
PS C:\Users\USER>
```

8. BOLA



The image shows a Visual Studio Code window with a file named `bola.py` open. The code in the editor is as follows:

```
1 r = int(input())
2 l = float(4 * 22) / 7 * r ** 2
3 v = float(4) / 3 * 22 / 7 * r ** 3
4 print("Luas =" + str(l))
5 print("Volume =" + str(v))
6
```

Below the editor, the `TERMINAL` panel is active, showing a Windows PowerShell session. The command executed is:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/bola.py"
```

The output of the script is:

```
5
Luas =314.2857142857143
Volume =523.8095238095239
PS C:\Users\USER>
```

The status bar at the bottom indicates the environment is `Python 3.10.0 64-bit`, with `Ln 1, Col 1`, `Spaces: 4`, `UTF-8`, `CRLF`, and the `Python` language mode.