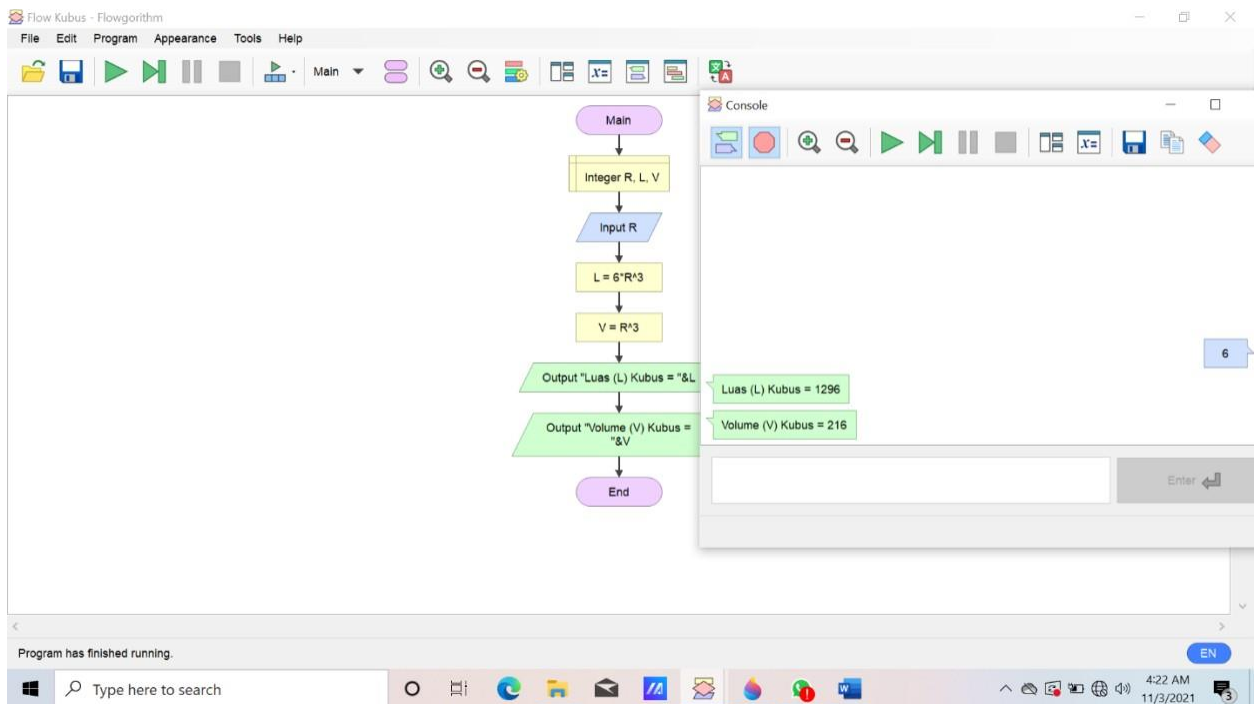


Nama : M.Dimas Sakti M

NIM : 20.01.013.037

MK : Kecerdasan Buatan

1. KUBUS



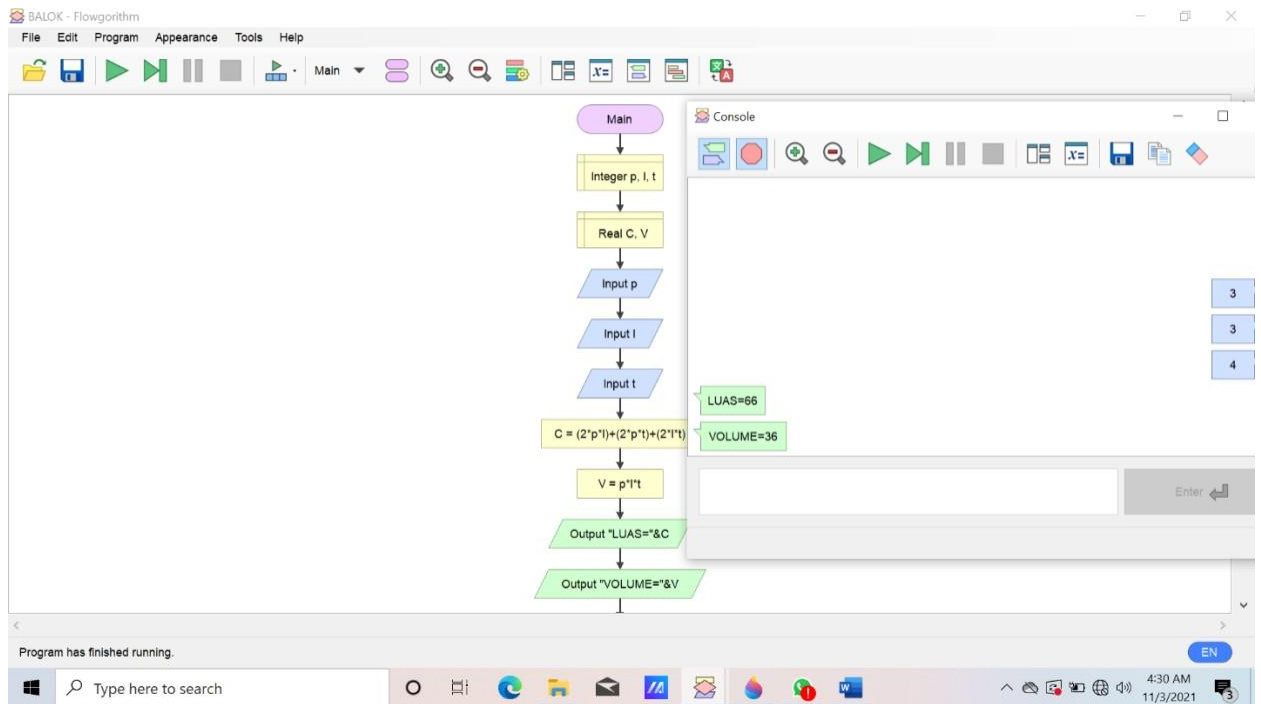
The image shows a Visual Studio Code window with a Python file named 'Flow Kubus.py'. The code calculates the surface area and volume of a cube based on a user input 'r'. The terminal shows the execution of the script, which outputs 'Luas (L) Kubus = 1296' and 'Volume (V) Kubus = 216'.

```
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
```

Terminal Output:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (P
ak Herfandi)/vscode/Flow Kubus.py"
6
Luas (L) Kubus = 1296
Volume (V) Kubus = 216
PS C:\Users\USER>
```

2. BALOK



```

D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > BALOK.py

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

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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

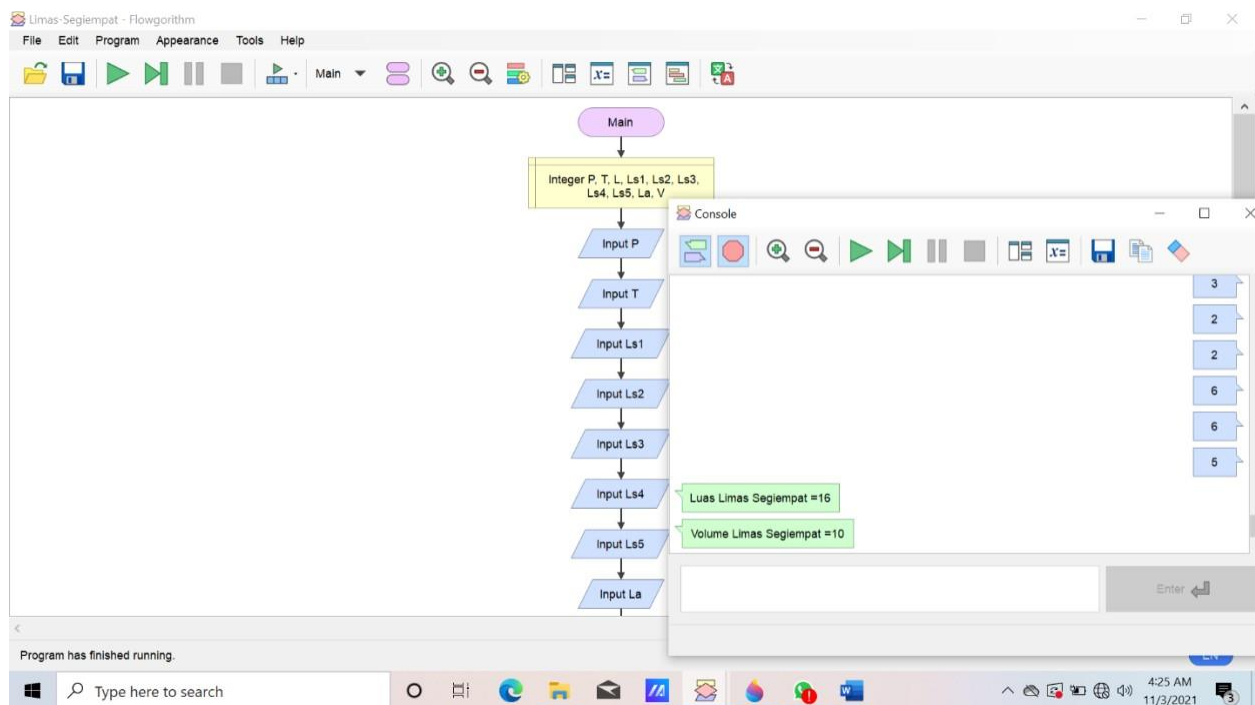
```

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

```

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

3. LIMAS SEGIEMPAT




```
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > Prisma segitiga.py

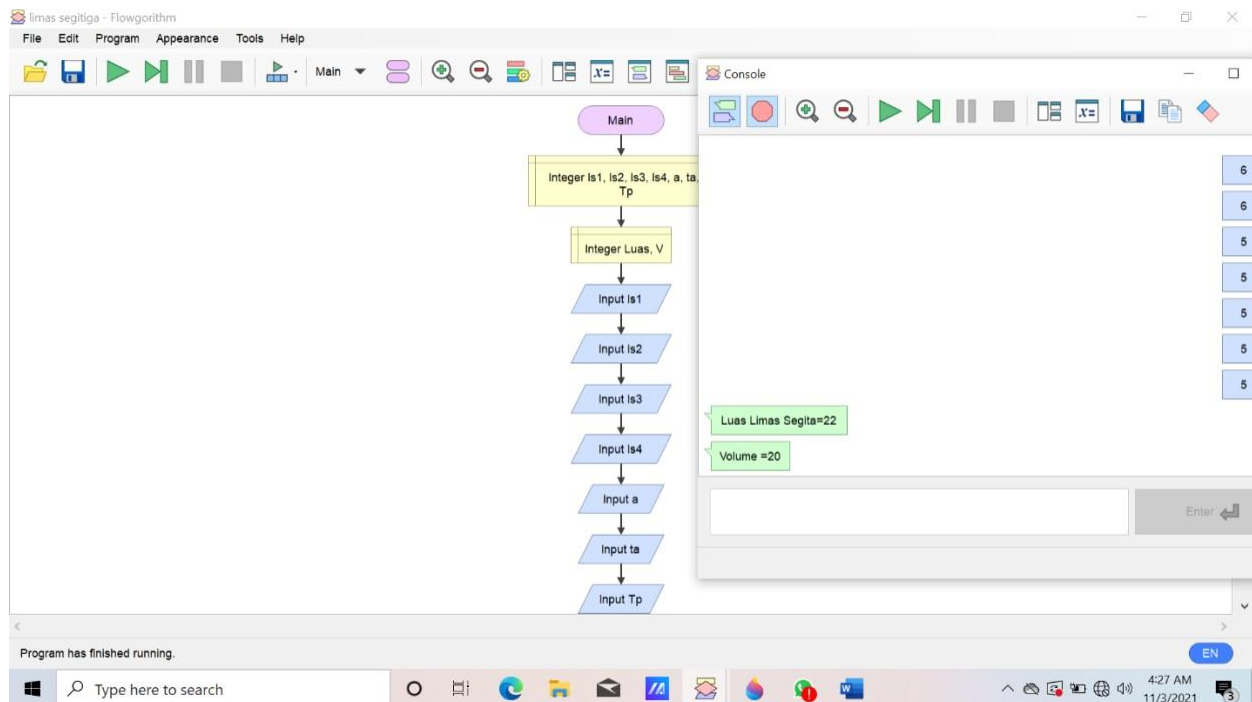
1  s1 = float(input())
2  s2 = float(input())
3  s3 = float(input())
4  a = float(input())
5  ta = float(input())
6  tp = float(input())
7  ls = (s1 + s2 + s3) * tp
8  lp = (s1 + s2 + s3) * tp + a * ta
9  v = float(1) / 2 * a * ta * tp
10 print("Luas selimut=" + str(ls))
11 print("Luas Permukaan=" + str(lp))
12 print("Volume=" + str(v))
13
```

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

5. LIMAS SEGITIGA



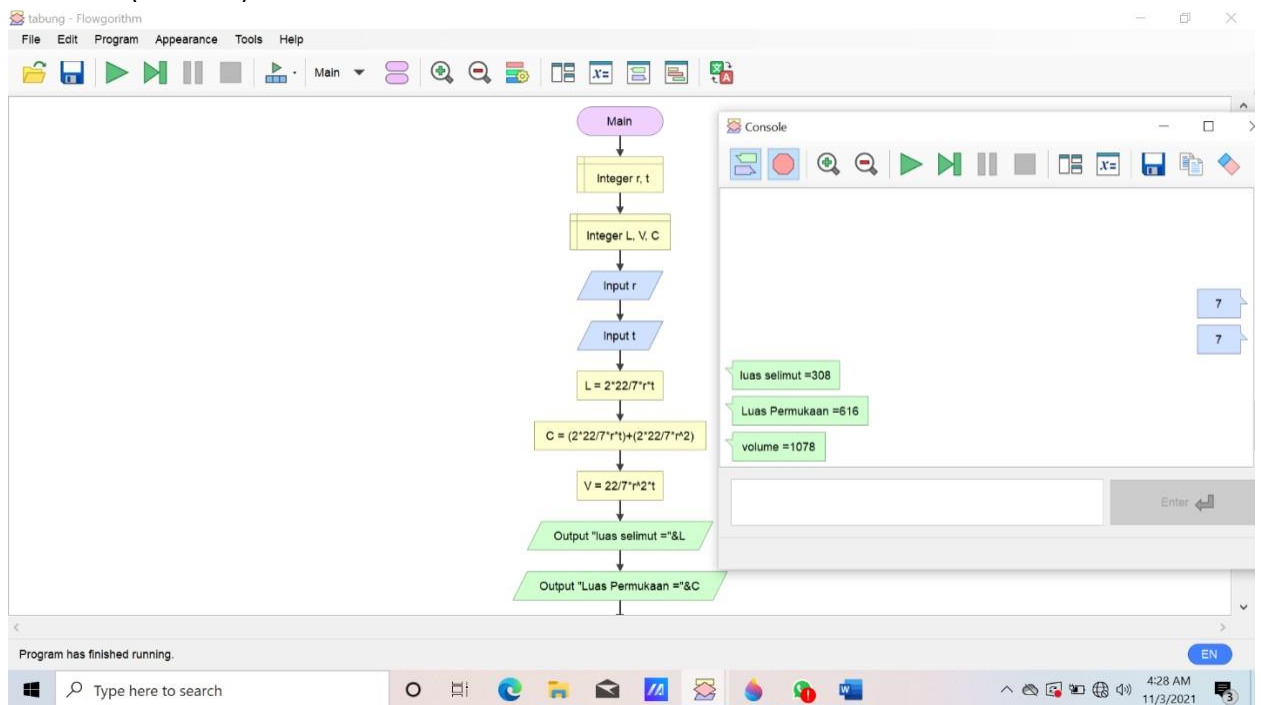
```
limas segitiga.py
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > limas segitiga.py
1  ls1 = int(input())
2  ls2 = int(input())
3  ls3 = int(input())
4  ls4 = int(input())
5  a = int(input())
6  ta = int(input())
7  tp = int(input())
8  luas = ls1 + ls2 + ls3 + ls4
9  v = float(1) / 6 * a * ta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

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

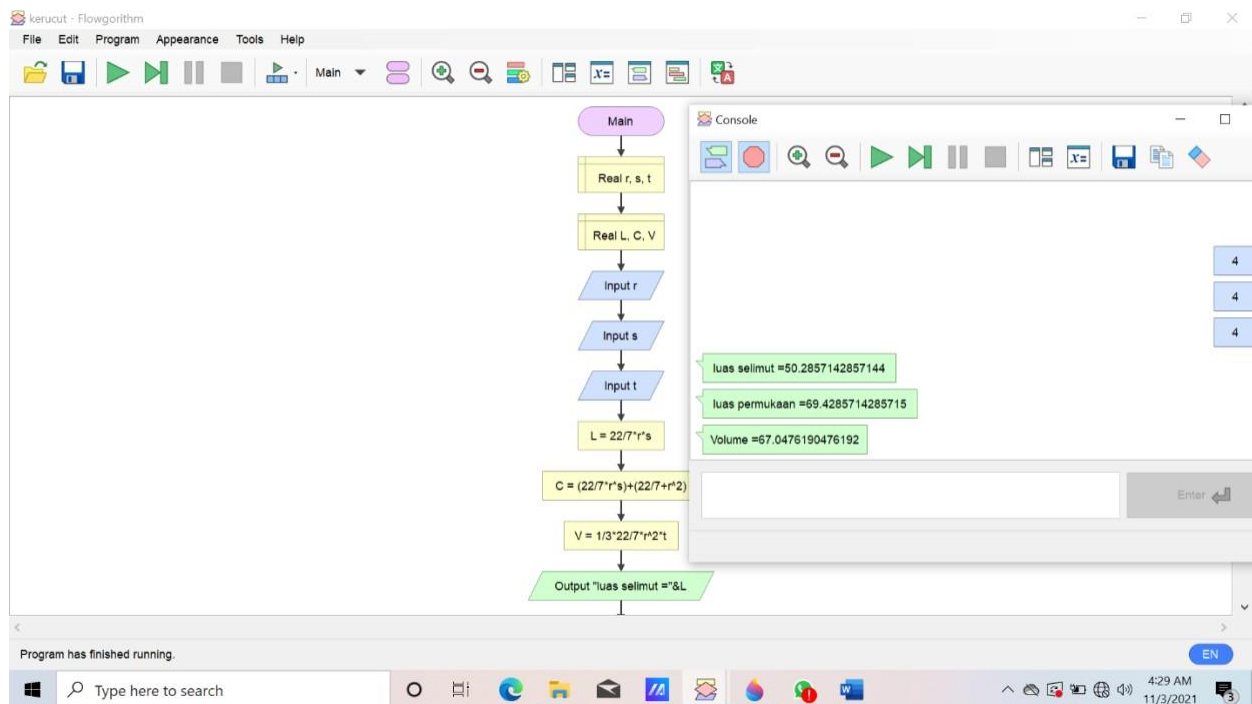
tabung.py
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > tabung.py
1 t = int(input())
2 t = int(input())
3 l = float(2 * 22) / 7 * r * t
4 c = float(2 * 22) / 7 * r * t + float(2 * 22) / 7 * r ** 2
5 v = float(22) / 7 * r ** 2 * t
6 print("luas selimut =" + str(l))
7 print("Luas Permukaan =" + str(c))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

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python + - [ ] [x] [^] [v]

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



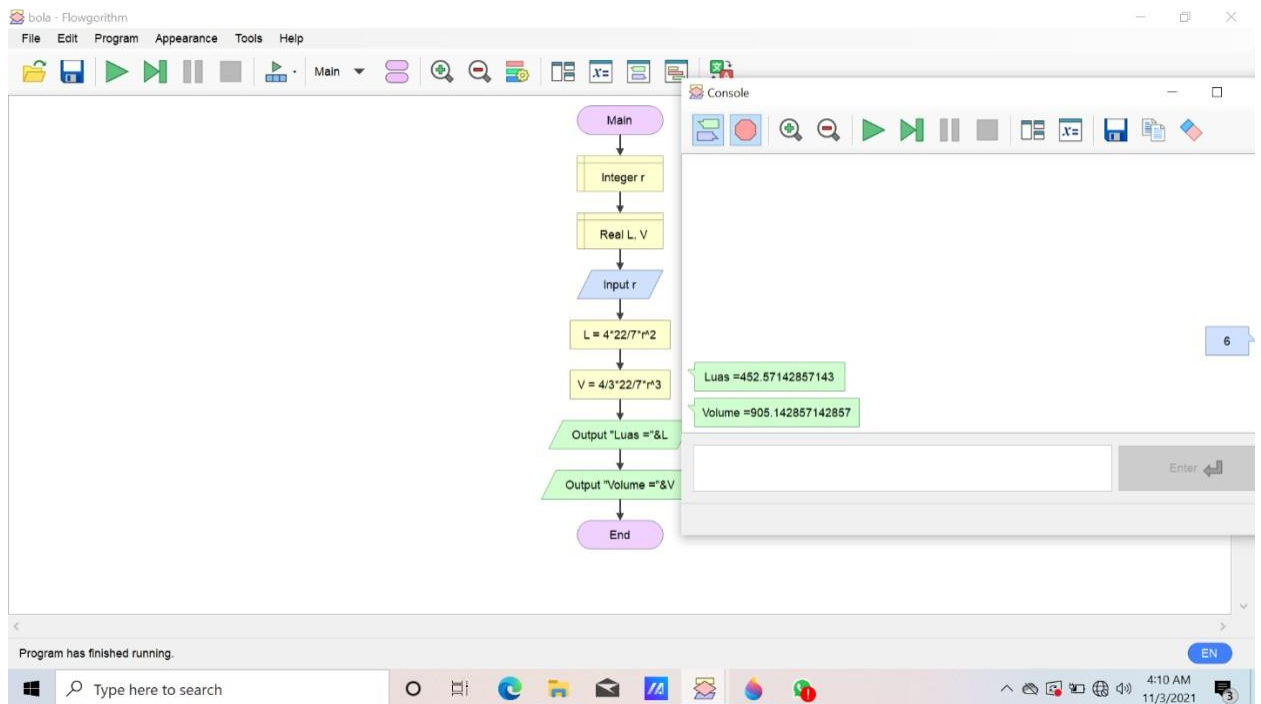
The screenshot shows the Visual Studio Code editor with a file named `kerucut.py` open. The code is a Python script that calculates the lateral surface area, total surface area, and volume of a cone based on user input for radius (`r`), slant height (`s`), and height (`t`). The formulas used are: $L = \frac{4}{3} \pi r^2$, $V = \frac{4}{3} \pi r^2 t$, and $V = \frac{1}{3} \pi r^2 t$. The script uses `float()` for calculations and `str()` for string formatting. The terminal shows the execution of the script, displaying the calculated values for lateral surface area, total surface area, and volume.

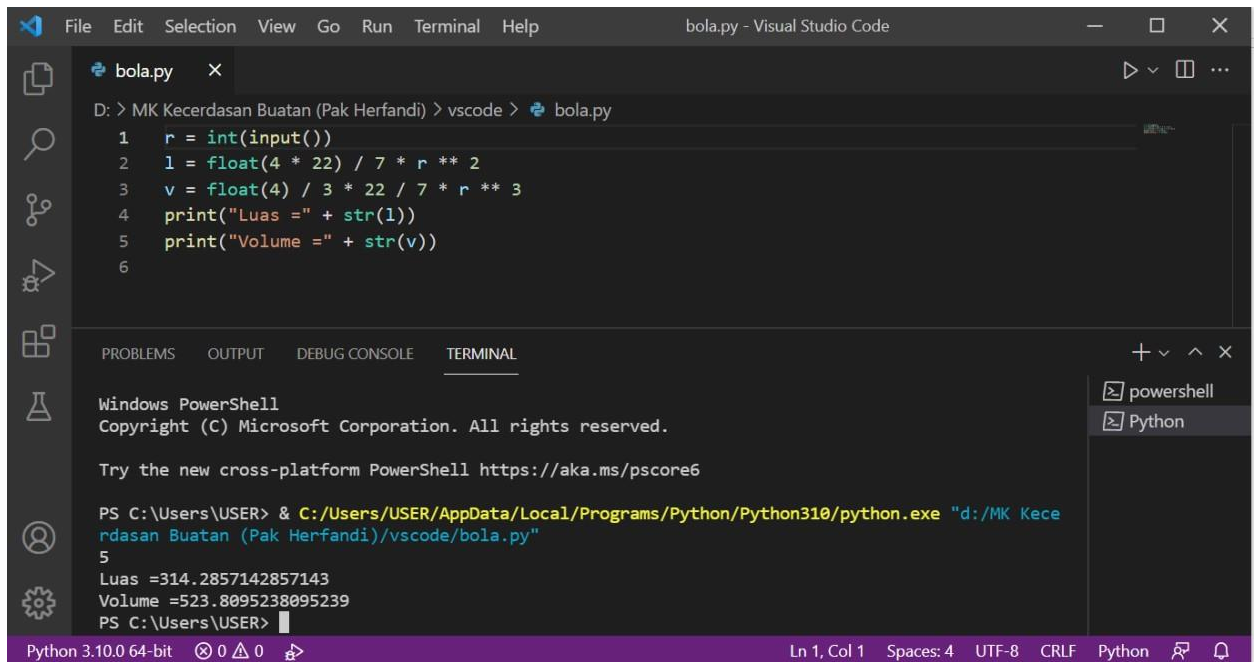
```
1 r = float(input())
2 s = float(input())
3 t = float(input())
4 l = float(22) / 7 * r * s
5 c = float(22) / 7 * r * s + (float(22) / 7 * r ** 2)
6 v = float(1) / 3 * 22 / 7 * r ** 2 * t
7 print("luas selimut =" + str(l))
8 print("luas permukaan =" + str(c))
9 print("Volume =" + str(v))
10
```

Terminal Output:

```
PS C:\Users\USER> & C:\Users\USER\AppData\Local\Programs\Python\Python310\python.exe "d:/MK Kecerdasan Buatan (Pak HerFandi)/vscod/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 a Python script that takes an input `r` and calculates two values, `l` and `v`, based on mathematical formulas. The script then prints the results for `l` and `v`.

```
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 code editor, the `TERMINAL` panel is active, showing the command prompt output. 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 shows the input `5` and the calculated values `Luas =314.2857142857143` and `Volume =523.8095238095239`.

At the bottom of the window, the status bar indicates the Python version is `Python 3.10.0 64-bit`, the file encoding is `UTF-8`, and the line/col/spaces information is `Ln 1, Col 1 Spaces: 4`.