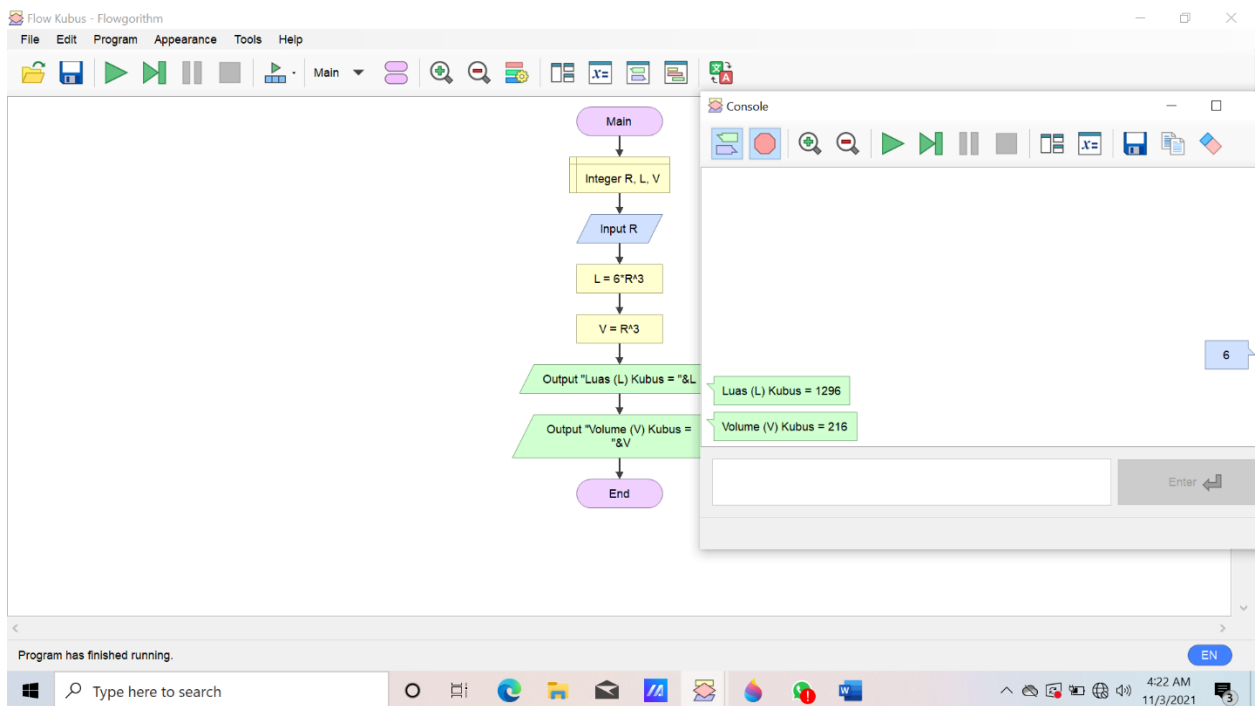


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## PRAKTIKUM INDIVIDU V

### RUMUS LUAS PERMUKAAN DAN VOLUME BANGUN RUANG

#### 1. KUBUS





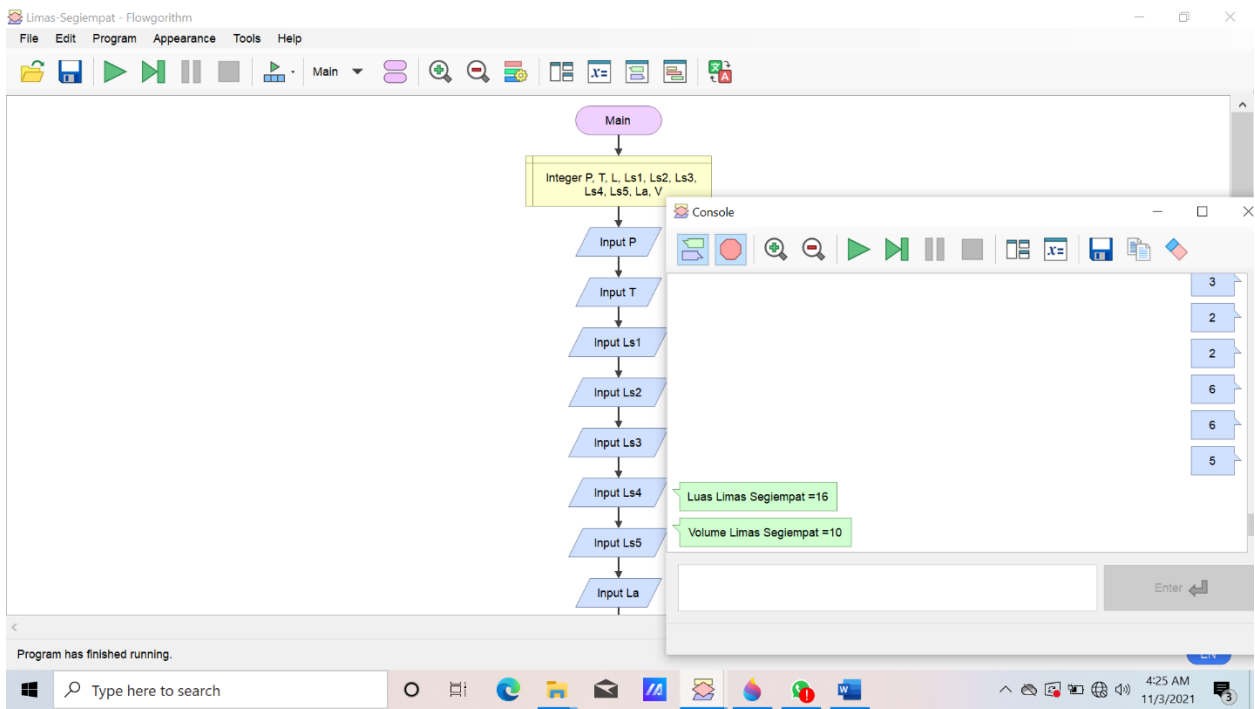
The screenshot shows the Visual Studio Code interface with a Python file named `BALOK.py` open. The code calculates the surface area and volume of a rectangular prism based on user input for length, width, and height.

```
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 window shows the command prompt running the script, with inputs 2, 2, and 2, resulting in LUAS=24 and VOLUME=8.

```
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



```

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

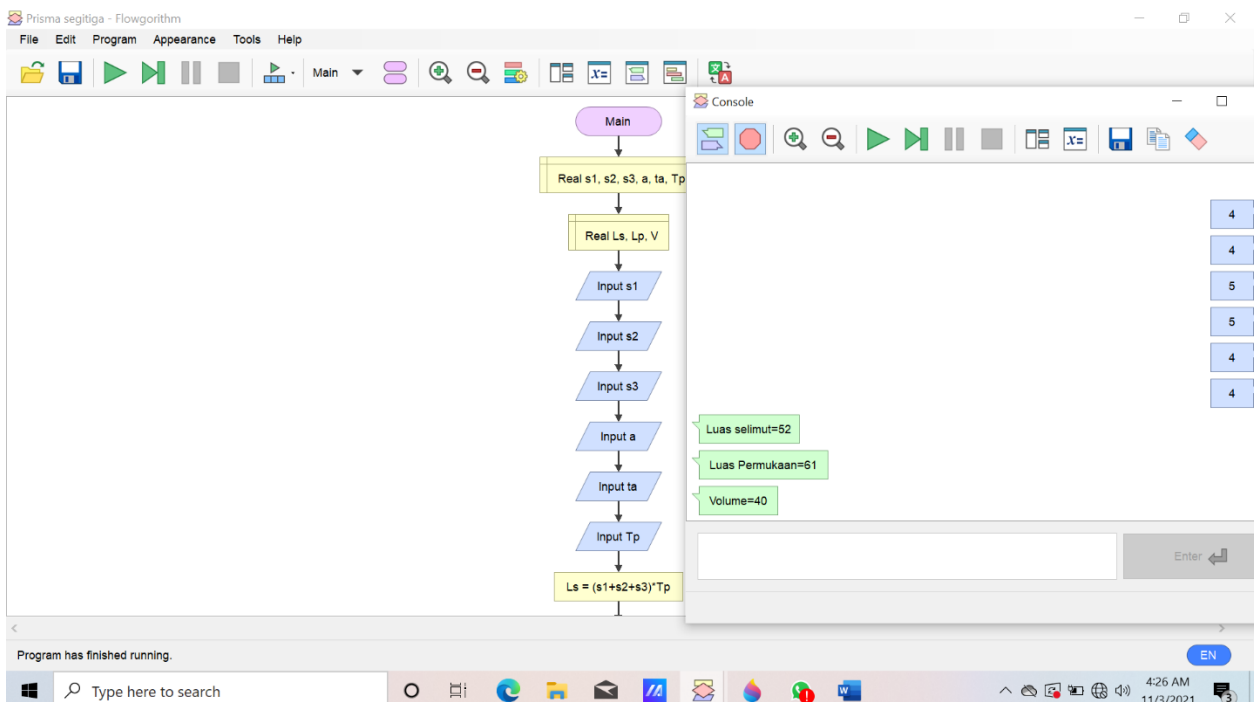
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python 3.10.0 64-bit 0 0 0

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

#### 4. PRISMA SEGITIGA



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

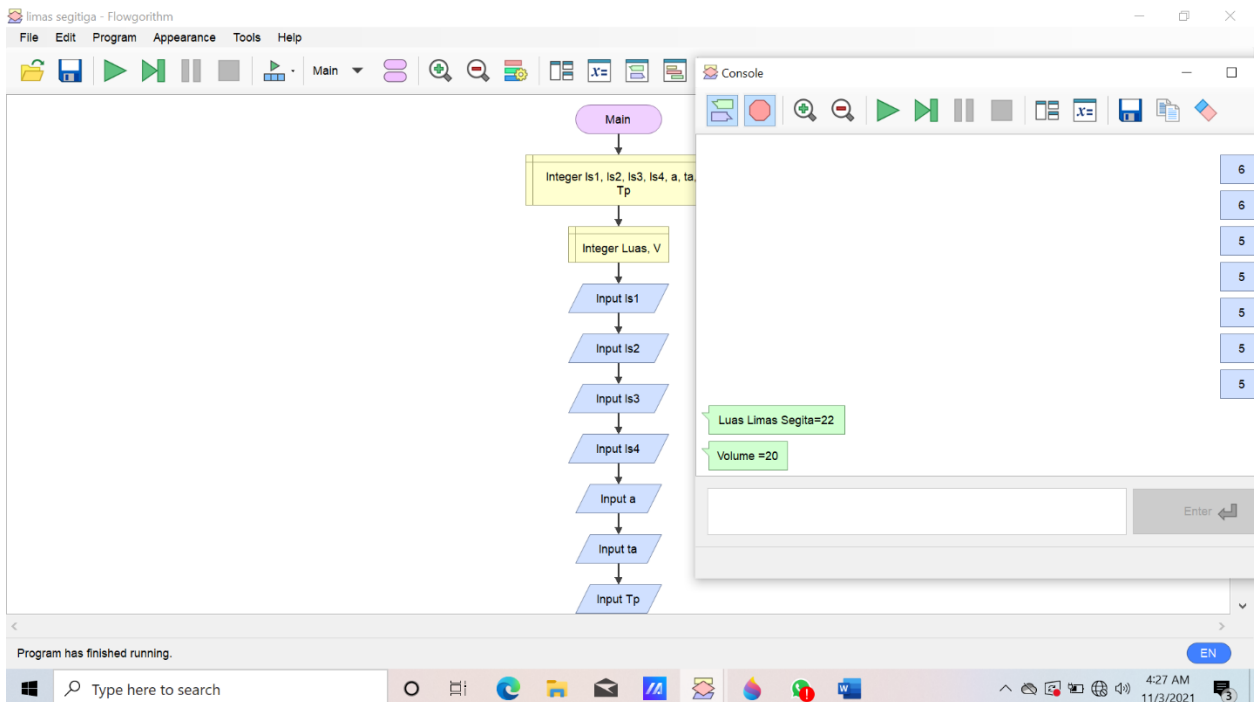
1  s1 = float(input())
2  s2 = float(input())
3  s3 = float(input())
4  a = float(input())
5  ta = float(input())
6  tp = float(input())
7  ls = (s1 + s2 + s3) * tp
8  lp = (s1 + s2 + s3) * tp + a + ta
9  v = float(1) / 2 * a * ta * tp
10 print("Luas selimut=" + str(ls))
11 print("Luas Permukaan=" + 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 0 Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

## 5. LIMAS SEGITIGA



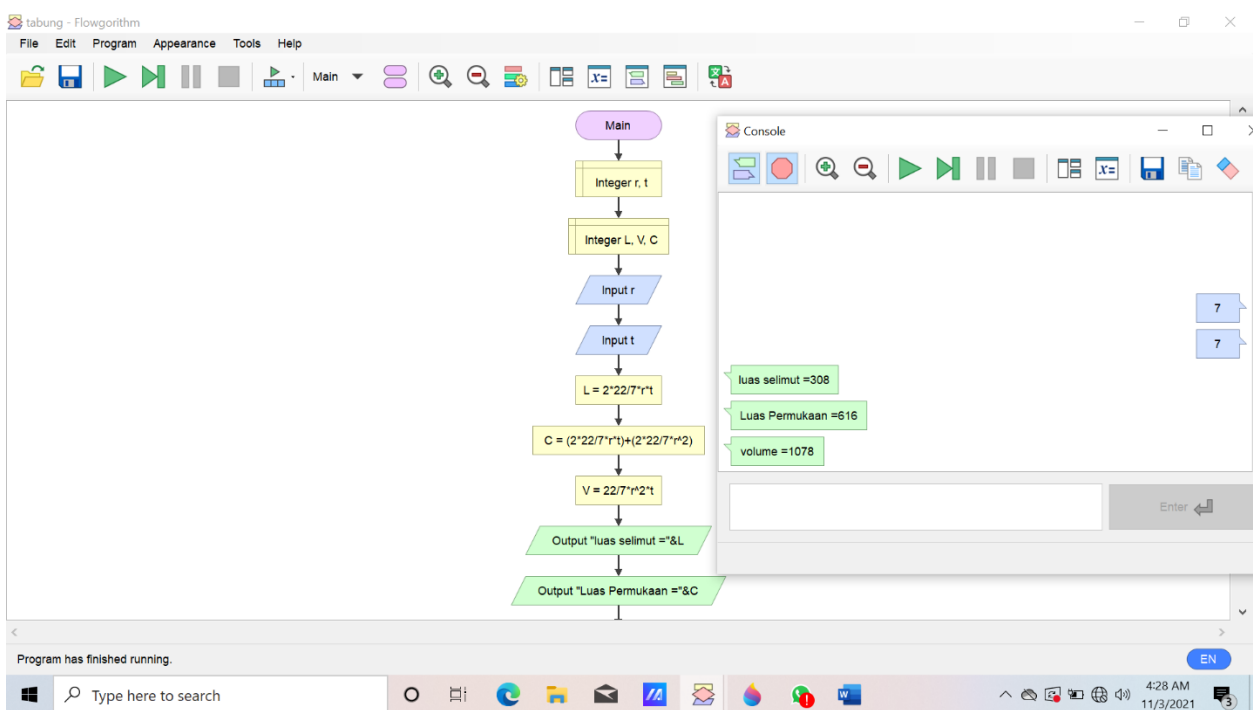
```
File Edit Selection View Go Run Terminal Help
limas segitiga.py - Visual Studio Code

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>
```

6. SELINDER (TABUNG)



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

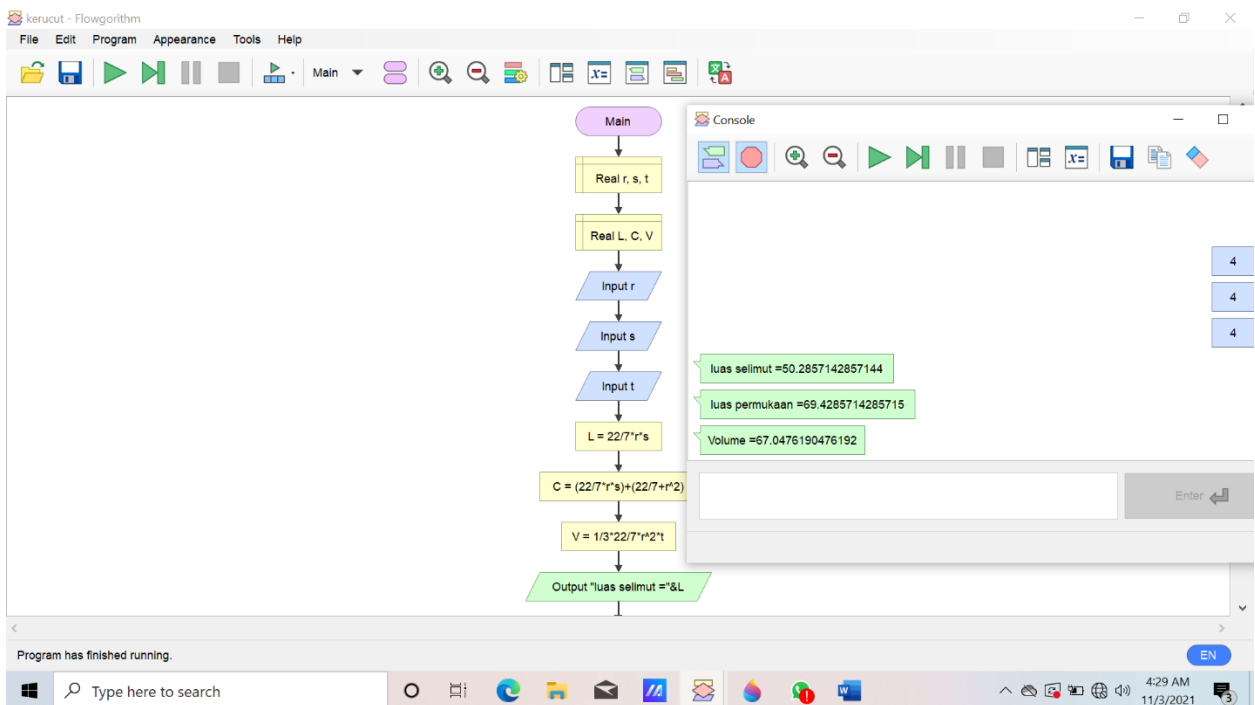
tabung.py X
D: > MK Kecerdasan Buatan (Pak Herfandi) > vscode > tabung.py
1 r = int(input())
2 t = int(input())
3 l = float(2 * 22) / 7 * r * t
4 c = float(2 * 22) / 7 * r * t + float(2 * 22) / 7 * r ** 2
5 v = float(22) / 7 * r ** 2 * t
6 print("luas selimut =" + str(l))
7 print("Luas Permukaan =" +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



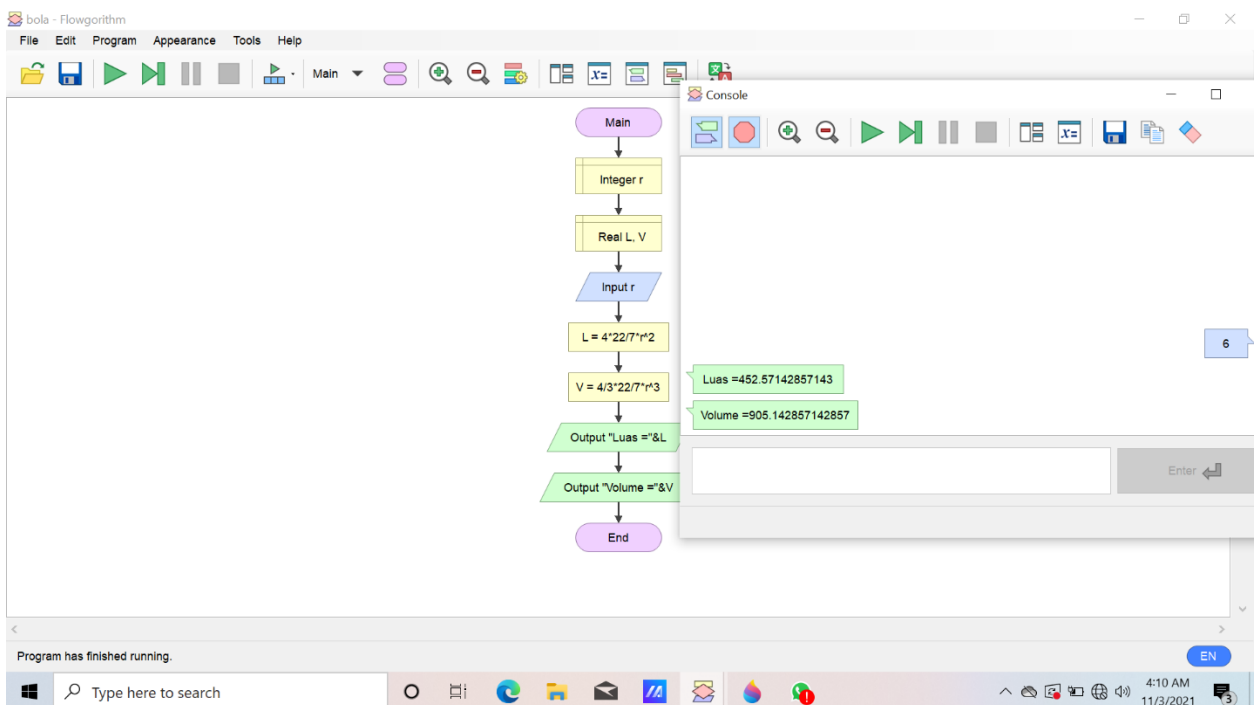
The image shows a Visual Studio Code window with a Python file named `kerucut.py`. The script takes three inputs (`r`, `s`, `t`) and calculates the surface area (`l`) and volume (`v`) of a cone. The terminal shows the output of the script when run with inputs 5, 7, and 3.

```
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
```

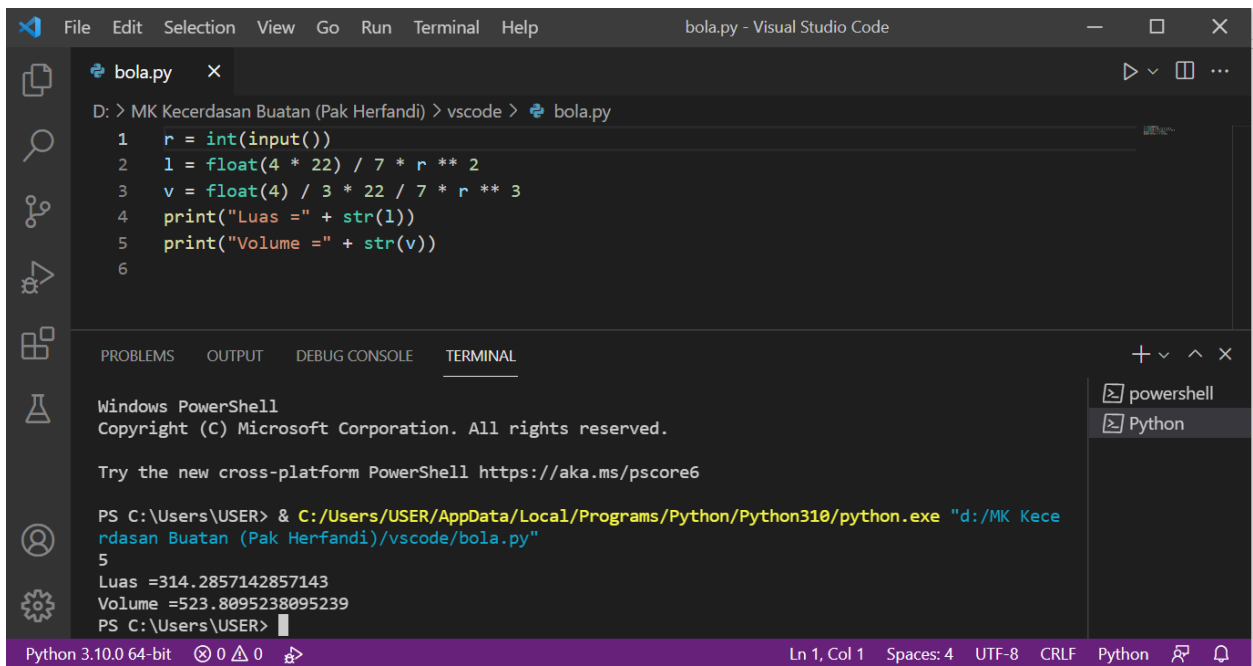
Terminal Output:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/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 Python file named `bola.py` open. The code in the file calculates the surface area and volume of a sphere based on a radius input. The terminal shows the command to run the script and the resulting output.

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

```
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
```

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/bola.py"

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

Python 3.10.0 64-bit 0 1 Python