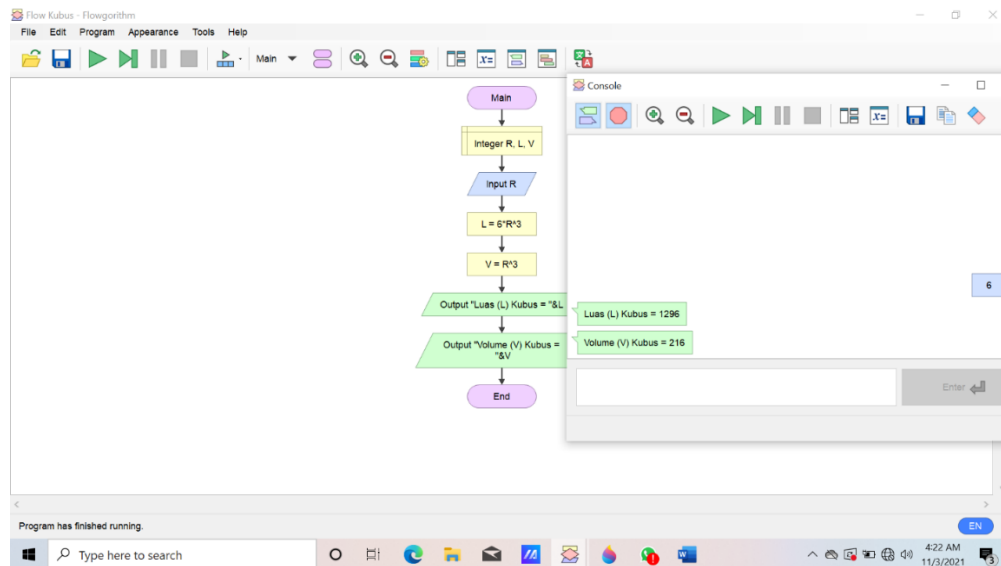


Nama : Wulandari
NIM : 20.01.013.019
Kelas : Teknik Informatika B
MK : Kecerdasan Buatan

PRAKTIKUM INDIVIDU 5 (BANGUN RUANG)

1. KUBUS



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

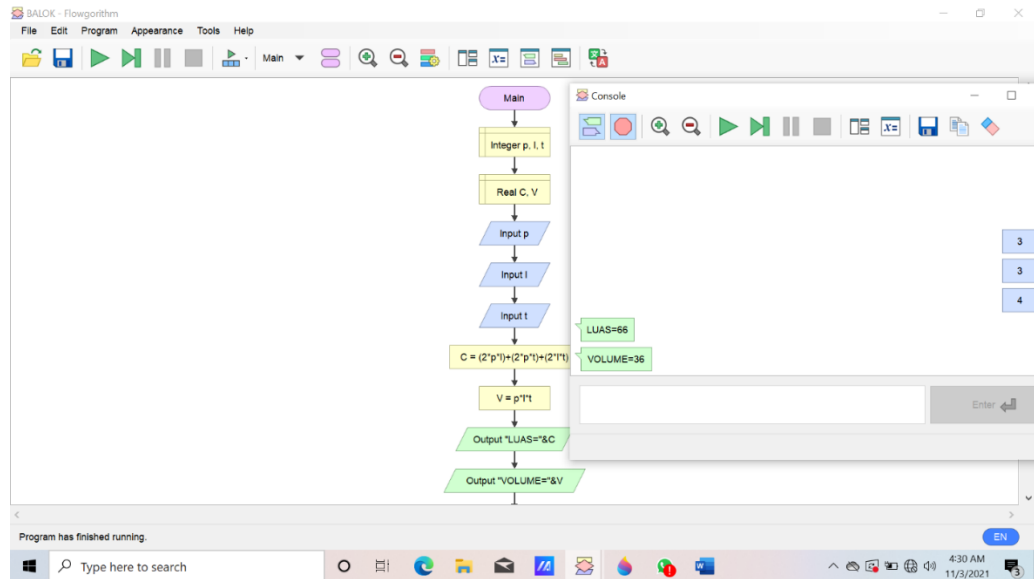
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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>
```

The image shows a Python script in a text editor and its execution in a terminal. The script takes an integer input 'r', calculates the surface area 'l' using the formula $l = 6 \cdot r^2$ and the volume 'v' using $v = r^3$, and prints the results. The terminal output shows the input '6' and the calculated values: 'Luas (L) Kubus = 1296' and 'Volume (V) Kubus = 216'.

2. BALOK

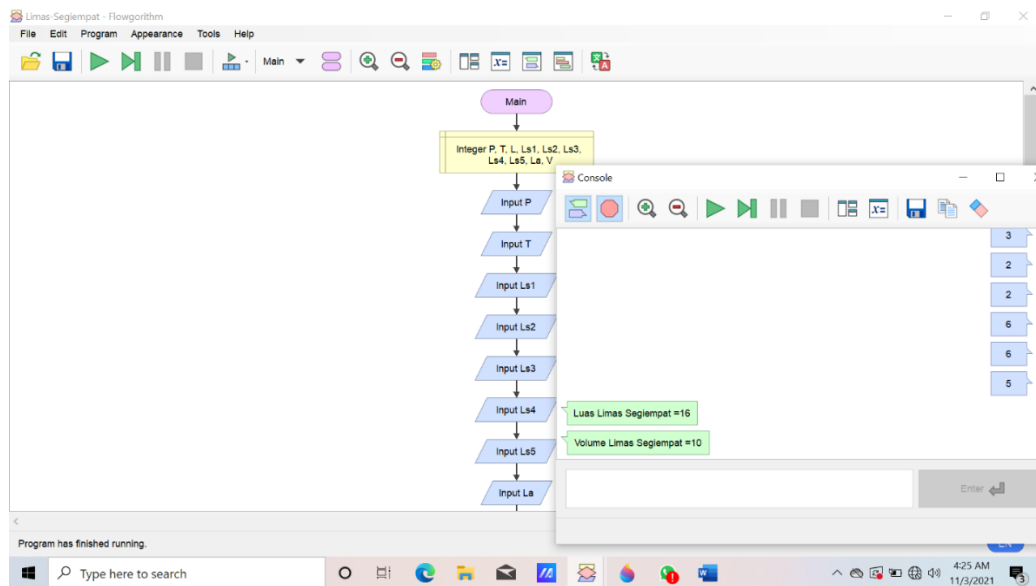


The image shows a Python script named 'BALOK.py' in Visual Studio Code. The script takes three integer inputs (p, l, t) and calculates the surface area (C) and volume (V) of a rectangular prism. The terminal output shows the execution of the script with inputs 3, 3, and 4, resulting in LUAS=66 and VOLUME=36.

```
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
```

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/BALOK.py"
3
3
4
LUAS=66
VOLUME=36
PS C:\Users\USER>
```

3. LIMAS SEGIEMPAT

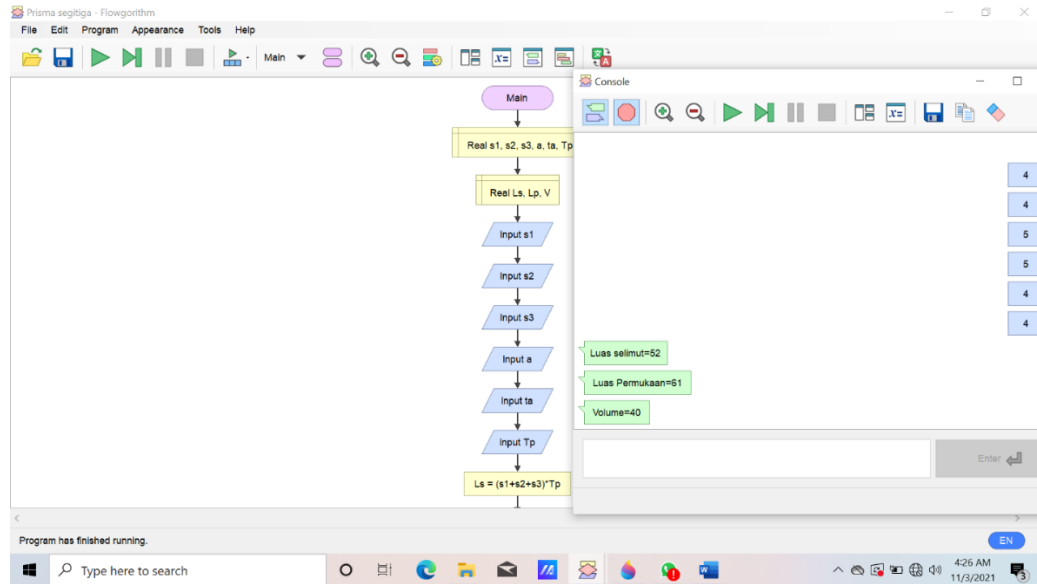


```
File Edit Selection View Go Run Terminal Help
Limas-Segiempat.py - Visual Studio Code

Limas-Segiempat.py X
D:\MK Kecerdasan Buatan (Pak Herfandi) > vscod... > Limas-Segiempat.py
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
Type here to search 4:25 AM 11/3/2021
```

4. PRISMA SEGITIGA

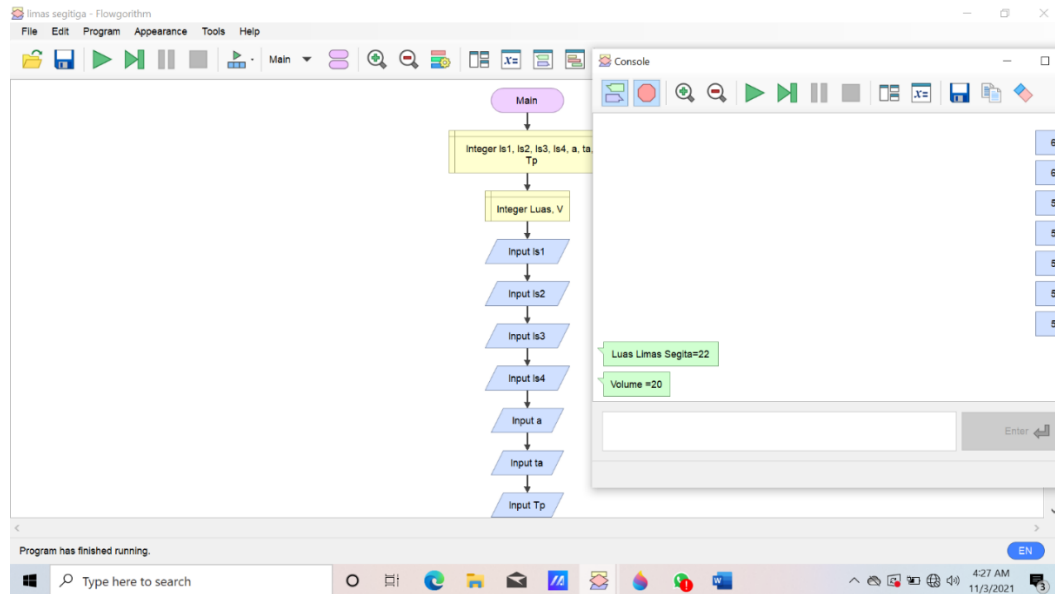


```
1 s1 = float(input())
2 s2 = float(input())
3 s3 = float(input())
4 a = float(input())
5 ta = float(input())
6 tp = float(input())
7 ls = (s1 + s2 + s3) * tp
8 lp = (s1 + s2 + s3) * tp + a + ta
9 v = float(1) / 2 * a * ta * tp
10 print("Luas selimut=" + str(ls))
11 print("Luas Permukaan=" + str(lp))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

Terminal output:

```
PS C:\Users\USER> & C:\Users\USER\AppData\Local\Programs\Python\Python310\python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/Prisma segitiga.py"
4
5
6
7
8
9
Luas selimut=135.0
Luas Permukaan=145.0
Volume=94.5
PS C:\Users\USER>
```

5. LIMAS SEGITIGA



The image shows a Python script and its terminal output for a program calculating the area and volume of a triangular pyramid.

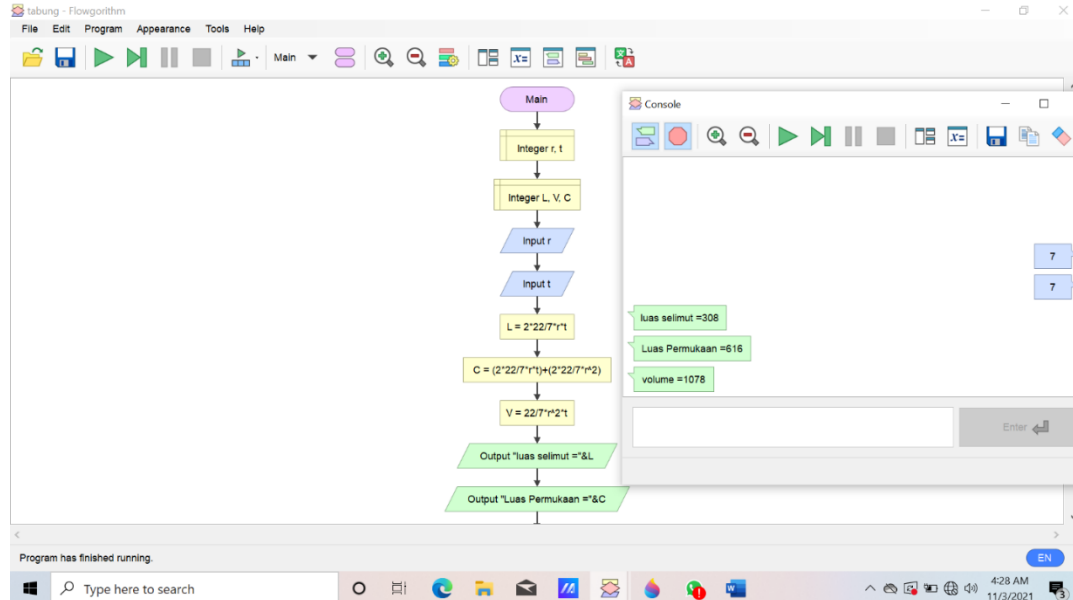
Python Code (limas_segitiga.py):

```
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
```

Terminal Output:

```
PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe "d:/MK Kecerdasan Buatan (Pak Herfandi)/vscode/limas_segitiga.py"
6
6
5
5
5
5
5
Luas Limas Segita=19
Volume =6.0
PS C:\Users\USER>
```

6. SELINDER (TABUNG)



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

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

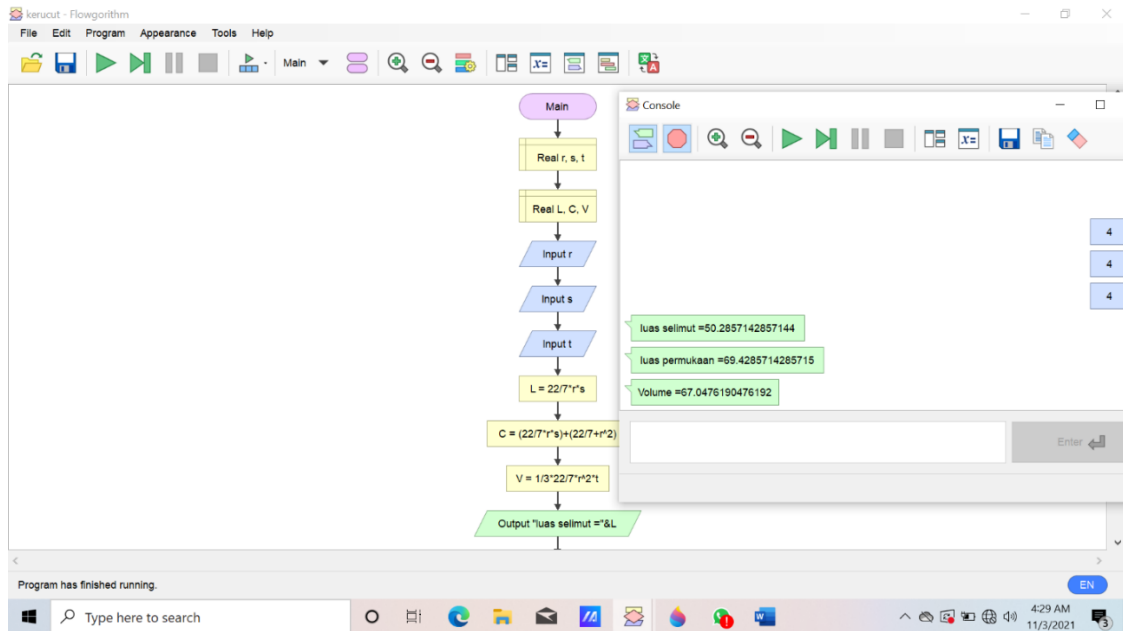
1 r = int(input())
2 t = int(input())
3 l = float(2 * 22) / 7 * r * t
4 c = float(2 * 22) / 7 * r * t + float(2 * 22) / 7 * r * r * 2
5 v = float(22) / 7 * r * r * t
6 print("luas selimut =" + str(l))
7 print("Luas Permukaan =" + str(c))
8 print("volume =" + str(v))
9

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 (Pak Herfandi)/vscode/tabung.py"
4
6
luas selimut =150.85714285714286
Luas Permukaan =251.42857142857144
volume =301.7142857142857
PS C:\Users\USER>
```

7. KERUCUT

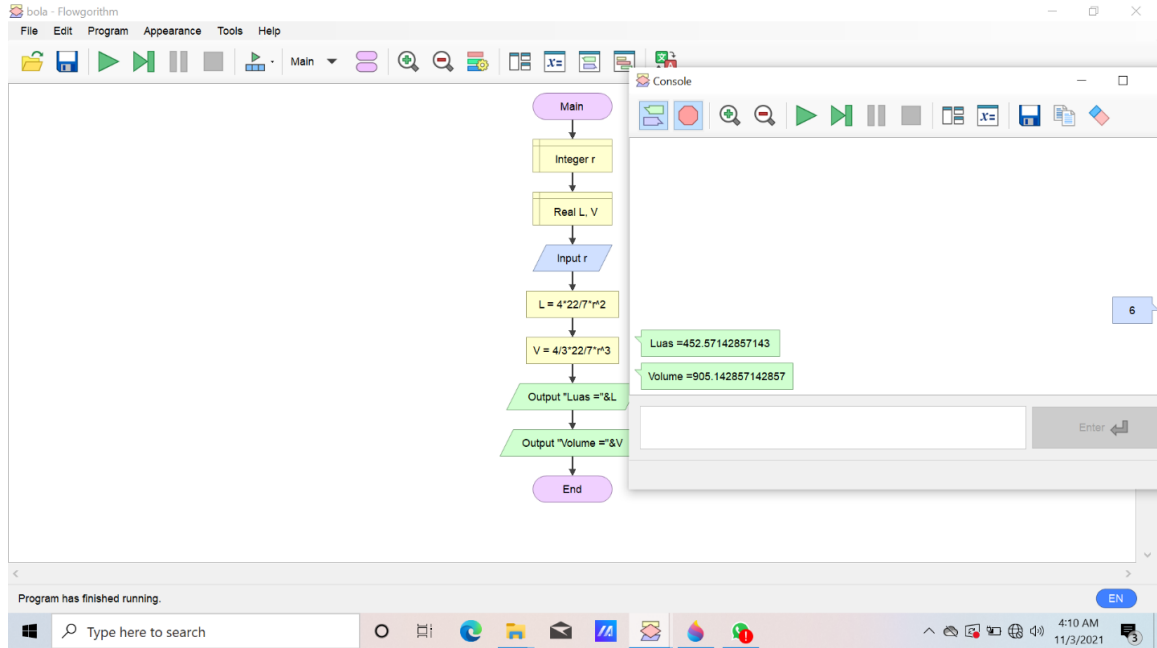


```
kerucut.py
1 r = float(input())
2 s = float(input())
3 t = float(input())
4 l = float(22 / 7 * r * s)
5 c = float(22 / 7 * r * s + (float(22) / 7 * r ** 2))
6 v = float(1 / 3 * 22 / 7 * r ** 2 * t)
7 print("luas selimut =" + str(l))
8 print("luas permukaan =" + str(c))
9 print("Volume =" + str(v))
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"
luas selimut =18.857142857142858
luas permukaan =26.0
Volume =16.761904761904763
PS C:\Users\USER>
```

8. BOLA



The image shows a Python script named 'BALOK.py' in Visual Studio Code. The script takes three integer inputs (p, l, t) and calculates the surface area (c) and volume (v) of a rectangular prism. The output shows 'LUAS=24' and 'VOLUME=8'.

```
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
```

Terminal Output:

```
Copyright (C) Microsoft Corporation. All rights reserved.
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/BALOK.py"
2
2
2
LUAS=24
VOLUME=8
PS C:\Users\USER>
```