

➤ Kubus

Luas

The screenshot displays a Python program for calculating the area of a cube. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart (luas konsep 2 - Flowgorithm):

```
graph TD
    Main([Main]) --> RealLuas[Real Luas, s]
    RealLuas --> OutputMasukkan[Output "masukkan s"]
    OutputMasukkan --> InputS[/Input s/]
    InputS --> OutputMasukkan2[Output "masukkan s"]
    OutputMasukkan2 --> InputS2[/Input s/]
    InputS2 --> LuasCalc[Luas = 6 * s * s]
    LuasCalc --> OutputLuas[Output "maka luasnya adalah "&Luas ...]
    OutputLuas --> OutputCm[Output "cm"]
    OutputCm --> End([End])
```

Source Code (luas konsep 2.py):

```
0 print("masukkan s")
1 s = float(input())
2 print("masukkan s")
3 s = float(input())
4 luas = 6 * s * s
5 print(" maka luasnya adalah " + str(luas), end='', flush=True)
6 print("cm")
```

Terminal Output:

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:/Users/ASUS/Documents/praktikum 5/kubus/L/luas konsep 2.py"
masukkan s
masukkan s
7
maka luasnya adalah 294.0cm
PS C:\Users\ASUS>
```

Volume

The screenshot displays a Python program for calculating the volume of a cube. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart (volume konsep 2 - Flowgorithm):

```
graph TD
    Main([Main]) --> RealVolume[Real volume, s]
    RealVolume --> OutputMasukkan[Output "masukkan s"]
    OutputMasukkan --> InputS[/Input s/]
    InputS --> VolumeCalc[volume = s * s * s]
    VolumeCalc --> OutputVolume[Output "maka volumenya adalah "&volume ...]
    OutputVolume --> OutputCm[Output "cm"]
    OutputCm --> End([End])
```

Source Code (volume konsep 2.py):

```
0 print("masukkan s")
1 s = float(input())
2 volume = s * s * s
3 print(" maka volumenya adalah " + str(volume), end='', flush=True)
4 print("cm")
```

Terminal Output:

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:/Users/ASUS/Documents/praktikum 5/kubus/V/volume konsep 2.py"
masukkan s
7
maka volumenya adalah 343.0cm
PS C:\Users\ASUS>
```

➤ Balok

Luas

The image shows a Python program for calculating the area of a rectangular prism (Balok). The program is displayed in three windows: Flowgorithm, Source Code Viewer, and a terminal.

Flowgorithm: The flowchart starts with a 'Main' block, followed by a 'Real Luas, p, l, t' block. It then prompts the user to 'Input p', 'Input l', and 'Input t'. The calculation is performed as $Luas = 2 * ((p * l) * (p * t) * (l * t))$. The final output is 'Output "maka luasnya adalah "&Luas ...'.

Source Code Viewer: The Python code is as follows:

```
0 print("masukkan p")
1 p = float(input())
2 print("masukkan l")
3 l = float(input())
4 print("masukkan t")
5 t = float(input())
6 luas = 2 * (p * l * (p * t) * (l * t))
7 print("maka luasnya adalah " + str(luas), end='')
8 print("cm")
```

Terminal: The terminal shows the execution of the program. The user inputs '3' for p, '4' for l, and '3' for t. The output is 'maka luasnya adalah 10368.0cm'.

Volume

The image shows a Python program for calculating the volume of a rectangular prism (Balok). The program is displayed in three windows: Flowgorithm, Source Code Viewer, and a terminal.

Flowgorithm: The flowchart starts with a 'Main' block, followed by a 'Real volume, p, l, t' block. It then prompts the user to 'Input p', 'Input l', and 'Input t'. The calculation is performed as $volume = p * l * t$. The final output is 'Output "maka volumenya adalah "&volume ...'.

Source Code Viewer: The Python code is as follows:

```
0 print("masukkan p")
1 p = float(input())
2 print("masukkan l")
3 l = float(input())
4 print("masukkan t")
5 t = float(input())
6 volume = p * l * t
7 print("maka volumenya adalah " + str(volume), end='')
8 print("cm")
```

Terminal: The terminal shows the execution of the program. The user inputs '3' for p, '4' for l, and '3' for t. The output is 'maka volumenya adalah 72.0cm'.

➤ Limas segiempat

Luas

The screenshot displays a Python IDE with three main components: a flowchart, a source code editor, and a terminal window.

Flowchart: The flowchart starts with a 'Main' terminal, followed by a process box 'Real Luas, LS1, LS2, LS3, LS4, LS5'. It then proceeds through a series of input and output steps: 'Output "masukkan LS1"', 'Input LS1', 'Output "masukkan LS2"', 'Input LS2', 'Output "masukkan LS3"', 'Input LS3', 'Output "masukkan LS4"', and 'Input LS4'.

Source Code: The code in the source code viewer is as follows:

```
1 LS3 = float(input())
2 print("masukkan LS4")
3 LS4 = float(input())
4 print("masukkan LS5")
5 LS5 = float(input())
6 luas = LS1 + LS2 + LS3 + LS4 + LS5
7 print(" maka luasnya adalah " + str(luas), end='')
8 print("cm")
```

Terminal: The terminal window shows the execution of the program. It prompts for inputs: 'masukkan LS1' (8), 'masukkan LS2' (15), 'masukkan LS3' (10), 'masukkan LS4' (8), and 'masukkan LS5' (4). The final output is 'maka luasnya adalah 49.0cm'.

Volume

The screenshot displays a Python IDE with three main components: a flowchart, a source code editor, and a terminal window.

Flowchart: The flowchart starts with a 'Main' terminal, followed by a process box 'Real volume, La, t'. It then proceeds through a series of input and output steps: 'Output "masukkan La"', 'Input La', 'Output "masukkan t"', 'Input t', a process box 'volume = 1/3*La*t', 'Output "maka volumenya adalah *volume ..."', and 'Output "cm"', ending with an 'End' terminal.

Source Code: The code in the source code viewer is as follows:

```
1 print("masukkan La")
2 la = float(input())
3 print("masukkan t")
4 t = float(input())
5 volume = float(1) / 3 * la * t
6 print(" maka volumenya adalah " + str(volume), end='')
7 print("cm")
```

Terminal: The terminal window shows the execution of the program. It prompts for inputs: 'masukkan La' (15) and 'masukkan t' (7). The final output is 'maka volumenya adalah 34.99999999999999cm'.

➤ Prisma segitiga

Luas

The screenshot displays a Python program for calculating the area of a triangle. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with an output box "Output 'masukkan a2'", followed by an input box "Input a2", then "Output 'masukkan a3'", "Input a3", "Output 'masukkan La'", "Input La", a process box "Luas = t*(a1+a2+a3)+(2*La)", "Output 'maka luasnya adalah '&Luas ...'", "Output 'cm'", and finally an "End" box.

Source Code: The source code is as follows:

```
5 a2 = float(input())
6 print("masukkan a3")
7 a3 = float(input())
8 print("masukkan La")
9 la = float(input())
10 luas = t * (a1 + a2 + a3) + 2 * la
11 print(" maka luasnya adalah " + str(luas), end='')
12 print("cm")
```

Terminal Output: The terminal shows the execution of the program. It prompts for input: "masukkan t", "masukkan a1", "masukkan a2", "masukkan a3", "masukkan La". The user enters values 4, 5, 6, 4, and 6 respectively. The final output is "maka luasnya adalah 131.0cm".

Volume

The screenshot displays a Python program for calculating the volume of a triangle. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a "Main" box, followed by a process box "Real volume, La, t", then "Output 'masukkan La'", "Input La", "Output 'masukkan t'", "Input t", a process box "volume = La*t", "Output 'maka volumenya adalah '&volume ...'", "Output 'cm'", and finally an "End" box.

Source Code: The source code is as follows:

```
0 print("masukkan La")
1 la = float(input())
2 print("masukkan t")
3 t = float(input())
4 volume = la * t
5 print(" maka volumenya adalah " + str(volume), end='')
6 print("cm")
```

Terminal Output: The terminal shows the execution of the program. It prompts for input: "masukkan La", "masukkan t". The user enters values 6 and 7 respectively. The final output is "maka volumenya adalah 42.0cm".

➤ Limas segitiga

Luas

The screenshot displays a Python program for calculating the area of a triangular pyramid. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' process, followed by a 'Real Luas, LS1, LS2, LS3, LS4' process. It then proceeds through a series of input and output steps: 'Output "masukkan LS1"', 'Input LS1', 'Output "masukkan LS2"', 'Input LS2', 'Output "masukkan LS3"', 'Input LS3', 'Output "masukkan LS4"', and 'Input LS4'.

Source Code: The source code is as follows:

```
0 print("masukkan LS1")
1 LS1 = float(input())
2 print("masukkan LS2")
3 LS2 = float(input())
4 print("masukkan LS3")
5 LS3 = float(input())
6 print("masukkan LS4")
7 LS4 = float(input())
8 luas = LS1 + LS2 + LS3 + LS4
```

Terminal Output: The terminal shows the execution of the program with the following input and output:

```
masukkan LS1
15
masukkan LS2
40
masukkan LS3
15
masukkan LS4
40
maka luasnya adalah 71.0cm
```

Volume

The screenshot displays a Python program for calculating the volume of a triangular pyramid. It consists of three main components: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' process, followed by a 'Real volume, La, t' process. It then proceeds through a series of input and output steps: 'Output "masukkan La"', 'Input La', 'Output "masukkan t"', 'Input t', 'volume = 1/3*La*t', 'Output "maka volumenya adalah *volume ..."', and 'Output "cm"'. The flowchart ends with an 'End' process.

Source Code: The source code is as follows:

```
0 print("masukkan La")
1 la = float(input())
2 print("masukkan t")
3 t = float(input())
4 volume = float(1) / 3 * la * t
5 print("maka volumenya adalah " + str(volume),
6 print("cm")
```

Terminal Output: The terminal shows the execution of the program with the following input and output:

```
masukkan La
45
masukkan t
7
maka volumenya adalah 105.0cm
```

➤ Selinder

Luas

The screenshot displays three windows related to a Python program for calculating the area of a cylinder (Luas).

Flowgorithm Window (luas konsep 2 - Flowgori...): Shows a flowchart for the program. The process starts with 'Main', followed by 'Real Luas, t, t'. It then prompts for 'Input r', followed by 'Input t'. The calculation is $Luas = 2 * 22 / 7 * t + 2 * 22 / 7 * r$. The output is 'Output "maka luasnya adalah *Luas ..."', followed by 'Output "cm"', and finally 'End'.

Source Code Viewer: Shows the Python code for the program:

```
0 print("masukkan r")
1 r = float(input())
2 print("masukkan t")
3 t = float(input())
4 luas = float(2 * 22) / 7 * r * t + float(2 * 22)
5 print("maka luasnya adalah " + str(luas), end=
6 print("cm")
```

Console: Shows the execution output:

```
masukkan r
7
masukkan t
10
maka luasnya adalah 748cm
```

Visual Studio Code Window (luas konsep 2.py): Shows the Python code and the terminal output:

```
1 print("masukkan r")
2 r = float(input())
3 print("masukkan t")
4 t = float(input())
5 luas = float(2 * 22) / 7 * r * t + float(2 * 22) / 7 * r * r
6 print("maka luasnya adalah " + str(luas), end='', flush=True)
7 print("cm")
8
```

The terminal output shows the same results as the console:

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Documents\praktikum 5\selinder\luas konsep 2.py"
masukkan r
7
masukkan t
10
maka luasnya adalah 748.0cm
PS C:\Users\ASUS>
```

Volume

The screenshot displays three windows related to a Python program for calculating the volume of a cylinder (Volume).

Flowgorithm Window (volume konsep 2 - Flow...): Shows a flowchart for the program. The process starts with 'Main', followed by 'Real volume, r, t'. It then prompts for 'Input r', followed by 'Input t'. The calculation is $volume = 22 / 7 * r * r * t$. The output is 'Output "maka volumenya adalah *volume ..."', followed by 'Output "cm"', and finally 'End'.

Source Code Viewer: Shows the Python code for the program:

```
0 print("masukkan r")
1 r = float(input())
2 print("masukkan t")
3 t = float(input())
4 volume = float(22) / 7 * r * r * t
5 print("maka volumenya adalah " + str(volume),
6 print("cm")
```

Console: Shows the execution output:

```
masukkan r
7
masukkan t
10
maka volumenya adalah 1540cm
```

Visual Studio Code Window (volume konsep 2.py): Shows the Python code and the terminal output:

```
1 print("masukkan r")
2 r = float(input())
3 print("masukkan t")
4 t = float(input())
5 volume = float(22) / 7 * r * r * t
6 print("maka volumenya adalah " + str(volume), end='', flush=True)
7 print("cm")
8
```

The terminal output shows the same results as the console:

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Documents\praktikum 5\selinder\volume konsep 2.py"
masukkan r
7
masukkan t
10
maka volumenya adalah 1540.0cm
PS C:\Users\ASUS>
```

➤ Kerucut

Luas

The screenshot displays a Python program for calculating the area of a cone. It consists of three main parts: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' block, followed by an 'Integer Luas, r, s' block. It then proceeds to 'Output "masukkan r"', 'Input r', 'Output "masukkan s"', 'Input s', a calculation block $Luas = 22/7 * (r * s) + 22/7 * r * r$, 'Output "maka luasnya adalah *Luas ..."', 'Output "cm"', and finally 'End'.

Source Code: The source code is as follows:

```
0 print("masukkan r")
1 r = int(input())
2 print("masukkan s")
3 s = int(input())
4 luas = float(22) / 7 * (r * s) + float(22) / 7 * r * r
5 print("maka luasnya adalah " + str(luas), end="")
6 print("cm")
```

Terminal Output: The terminal shows the execution of the program with inputs 7 and 25, resulting in the output: "maka luasnya adalah 704cm".

Volume

The screenshot displays a Python program for calculating the volume of a cone. It consists of three main parts: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' block, followed by a 'Real volume, r, t' block. It then proceeds to 'Output "masukkan r"', 'Input r', 'Output "masukkan t"', 'Input t', a calculation block $volume = 1/3 * 22/7 * r * r * t$, 'Output "maka volumenya adalah *volume ..."', 'Output "cm"', and finally 'End'.

Source Code: The source code is as follows:

```
0 print("masukkan r")
1 r = float(input())
2 print("masukkan t")
3 t = float(input())
4 volume = float(1) / 3 * 22 / 7 * r * r * t
5 print("maka volumenya adalah " + str(volume), end="")
6 print("cm")
```

Terminal Output: The terminal shows the execution of the program with inputs 7 and 24, resulting in the output: "maka volumenya adalah 1232cm".

➤ Bola

Luas

The screenshot displays a Python program for calculating the area of a circle. It is divided into three main sections: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' terminal, followed by a 'Real Luas, r' process. It then proceeds to 'Output "masukkan r"', 'Input r', and another 'Output "masukkan r"'. The calculation is performed in a process box: $Luas = 4 * 22 / 7 * r * r$. This is followed by 'Output "maka luasnya adalah "&Luas ...' and 'Output "cm"', leading to an 'End' terminal.

Source Code: The Python code in the Source Code Viewer is as follows:

```
0 print("masukkan r")
1 r = float(input())
2 print("masukkan r")
3 r = float(input())
4 luas = float(4 * 22 / 7 * r * r)
5 print("maka luasnya adalah " + str(luas), end=
6 print("cm")
```

Terminal Output: The terminal shows the execution of the program. It prompts for input, receives '7', and outputs: 'maka luasnya adalah 616.0000000000001cm'.

Volume

The screenshot displays a Python program for calculating the volume of a sphere. It is divided into three main sections: a flowchart, source code, and terminal output.

Flowchart: The flowchart starts with a 'Main' terminal, followed by a 'Real volume, r' process. It then proceeds to 'Output "masukkan r"', 'Input r', and another 'Output "masukkan r"'. The calculation is performed in a process box: $volume = 4/3 * 22/7 * r * r * r$. This is followed by 'Output "maka volumenya adalah "&volume ...' and 'Output "cm"', leading to an 'End' terminal.

Source Code: The Python code in the Source Code Viewer is as follows:

```
0 print("masukkan r")
1 r = float(input())
2 volume = float(4 / 3 * 22 / 7 * r * r * r)
3 print("maka volumenya adalah " + str(volume),
4 print("cm")
```

Terminal Output: The terminal shows the execution of the program. It prompts for input, receives '7', and outputs: 'maka volumenya adalah 1437.3333333333335cm'.