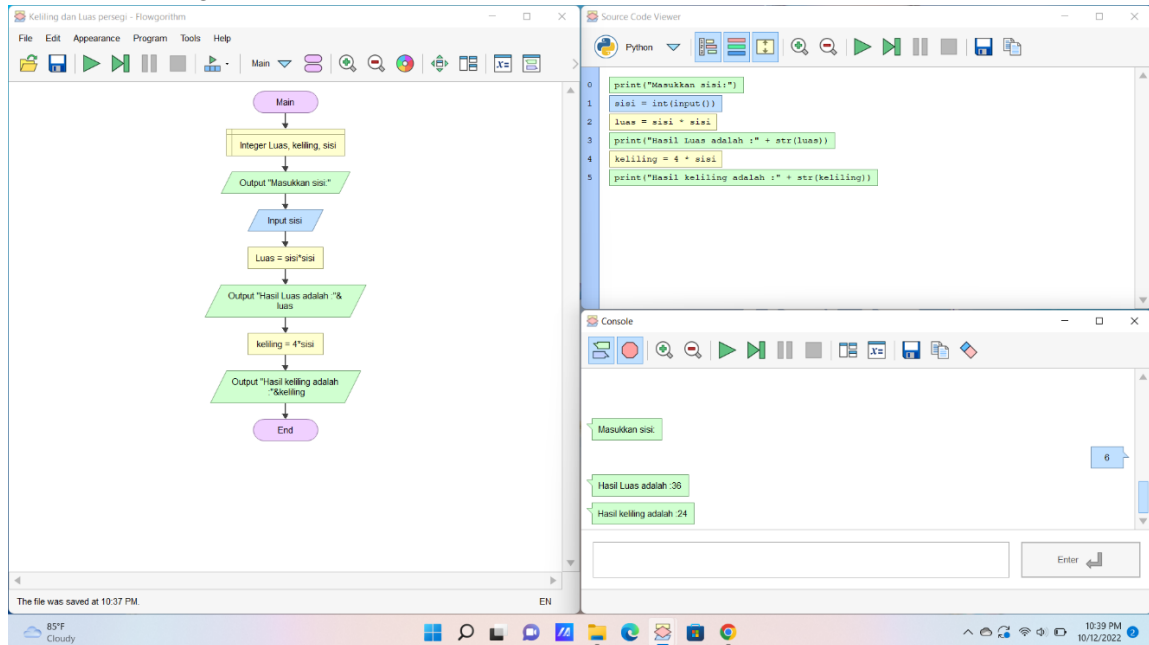


# MINGGU II TUGAS 1

NAMA : MUTIARA ADE KANTARI

NIM : 211001065

## 1. Flowchart Persegi

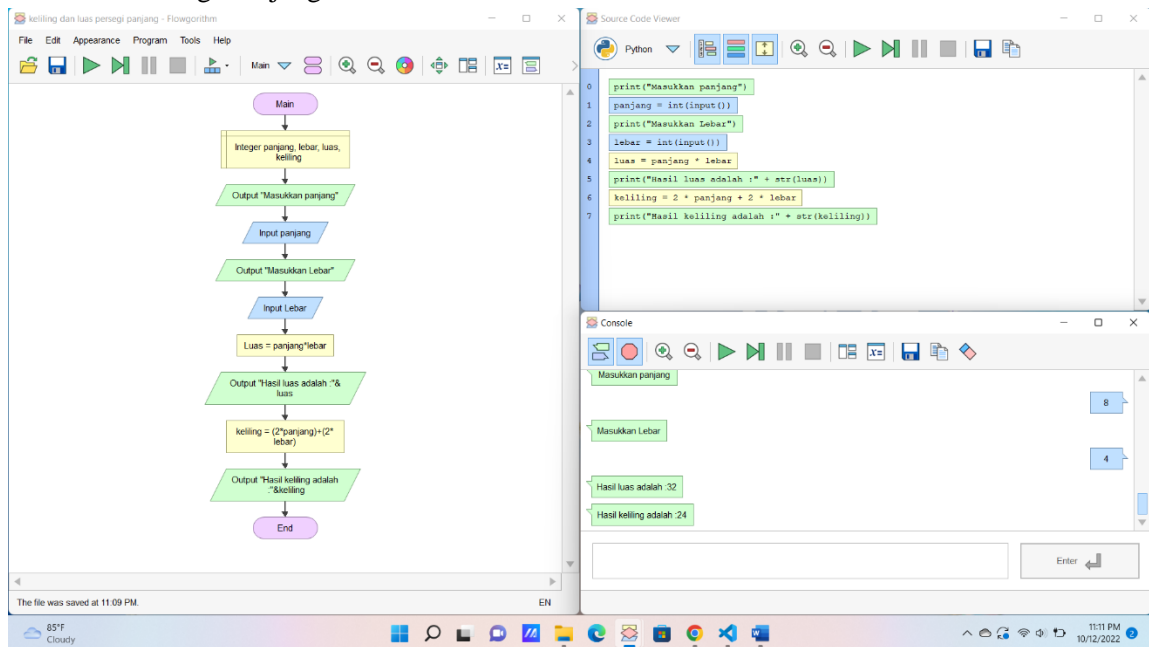


## VS-Code

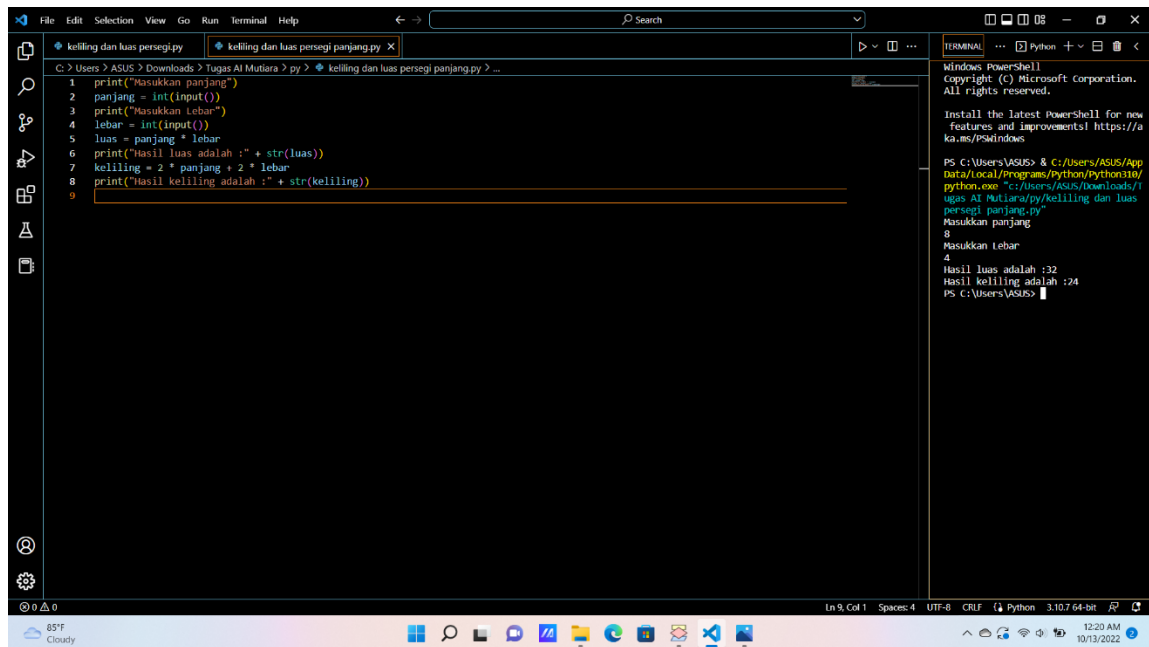
The image shows a screenshot of the VS-Code editor. The main editor window displays the Python script for calculating the area and perimeter of a square. The file explorer on the left shows the file 'keliling dan luas persegi.py'. The terminal window on the right shows the execution of the script in a PowerShell environment. The output of the script is as follows:

```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Downloads\tugas AI Mutiara\py\keliling dan luas persegi.py"
Masukkan sisi:
8
Hasil Luas adalah :36
Hasil keliling adalah :24
PS C:\Users\ASUS>
```

## 2. Flowchart Persegi Panjang



## VS-Code



### 3. Flowchart Jajar Genjang

The image displays two screenshots of a Python program designed to calculate the area and perimeter of a parallelogram. The program is titled "jajar genjang - Flowgorithm" and is shown in a Source Code Viewer and a Console window.

**Flowchart (Top Screenshot):**

```
graph TD
    Main([Main]) --> Decl[Integer ab, cd, tinggi, luas, keliling]
    Decl --> Out1[Output "Masukkan ab"]
    Out1 --> In1[Input ab]
    In1 --> Out2[Output "Masukkan tinggi"]
    Out2 --> In2[Input tinggi]
    In2 --> Calc1[Luas = ab * tinggi]
    Calc1 --> Out3[Output "Hasil luas adalah " & luas]
    Out3 --> Out4[Output "Masukkan cd"]
    Out4 --> In3[Input cd]
    In3 --> Calc2[keliling = ab + cd]
    Calc2 --> Out5[Output "Hasil keliling adalah " & keliling]
    Out5 --> End([End])
```

**Source Code (Top Screenshot):**

```
0 print("Masukkan ab")
1 ab = int(input())
2 print("Masukkan tinggi")
3 tinggi = int(input())
4 luas = ab * tinggi
5 print("Hasil luas adalah : " + str(luas))
6 print("Masukkan cd")
7 cd = int(input())
8 keliling = ab + cd
9 print("Hasil keliling adalah : " + str(keliling))
```

**Console (Top Screenshot):**

```
Masukkan ab
6
Masukkan tinggi
4
Hasil luas adalah 12
Masukkan cd
Hasil keliling adalah 6
```

**Flowchart (Bottom Screenshot):**

The flowchart is identical to the one in the top screenshot, showing the same sequence of steps for calculating the area and perimeter of a parallelogram.

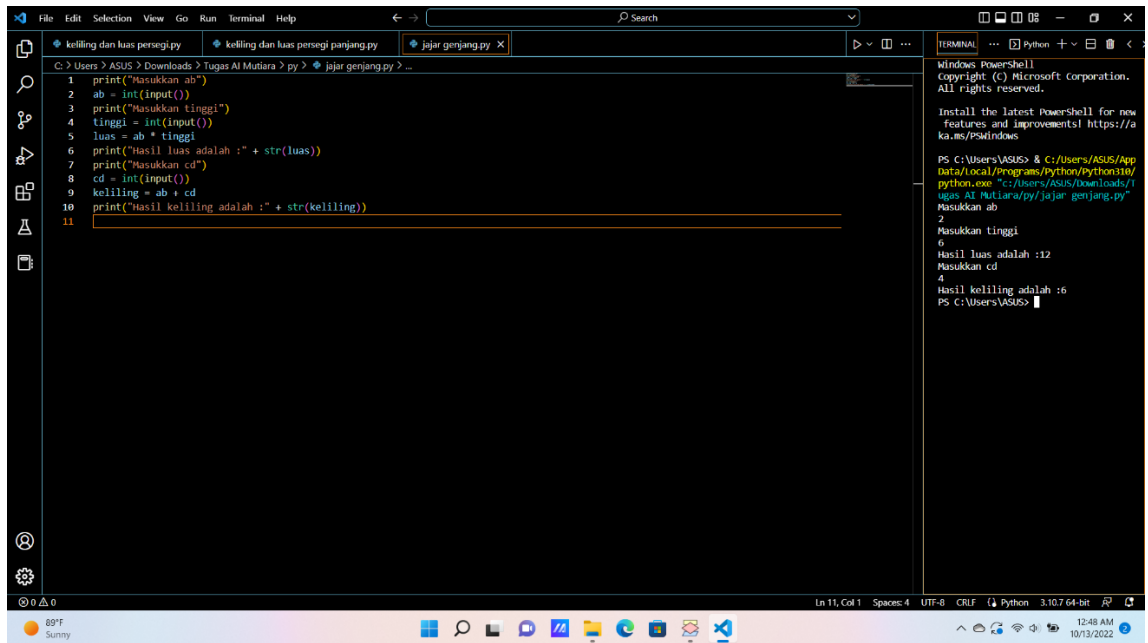
**Source Code (Bottom Screenshot):**

```
0 print("Masukkan ab")
1 ab = int(input())
2 print("Masukkan tinggi")
3 tinggi = int(input())
4 luas = ab * tinggi
5 print("Hasil luas adalah : " + str(luas))
6 print("Masukkan cd")
7 cd = int(input())
8 keliling = ab + cd
9 print("Hasil keliling adalah : " + str(keliling))
```

**Console (Bottom Screenshot):**

```
Masukkan ab
2
Masukkan tinggi
6
Hasil luas adalah 12
Masukkan cd
Hasil keliling adalah 6
```

## VS-Code

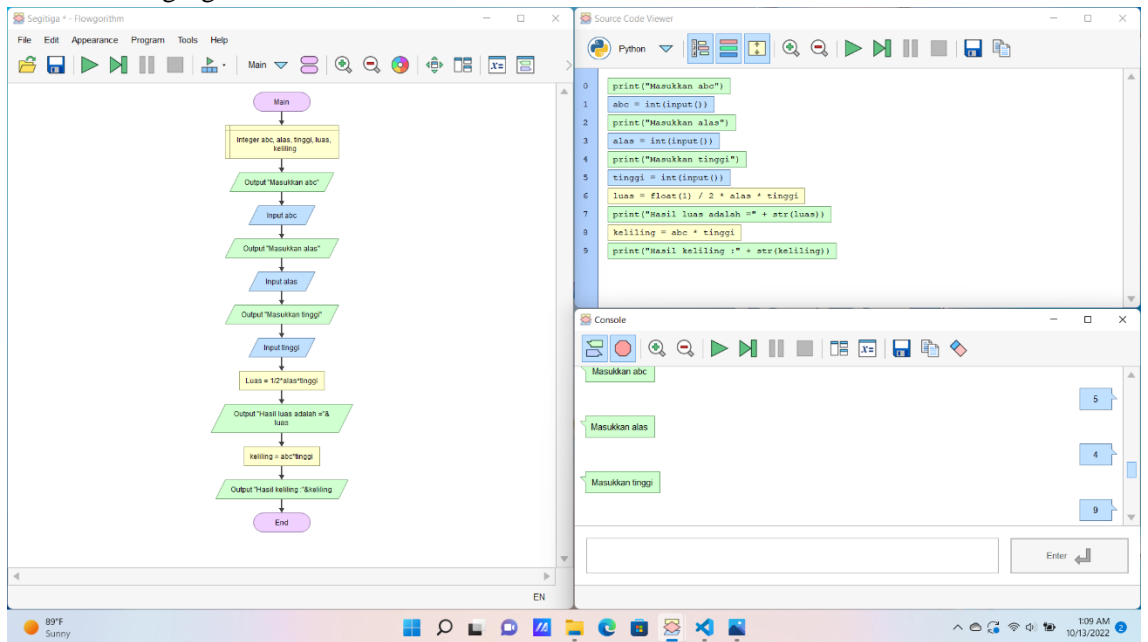


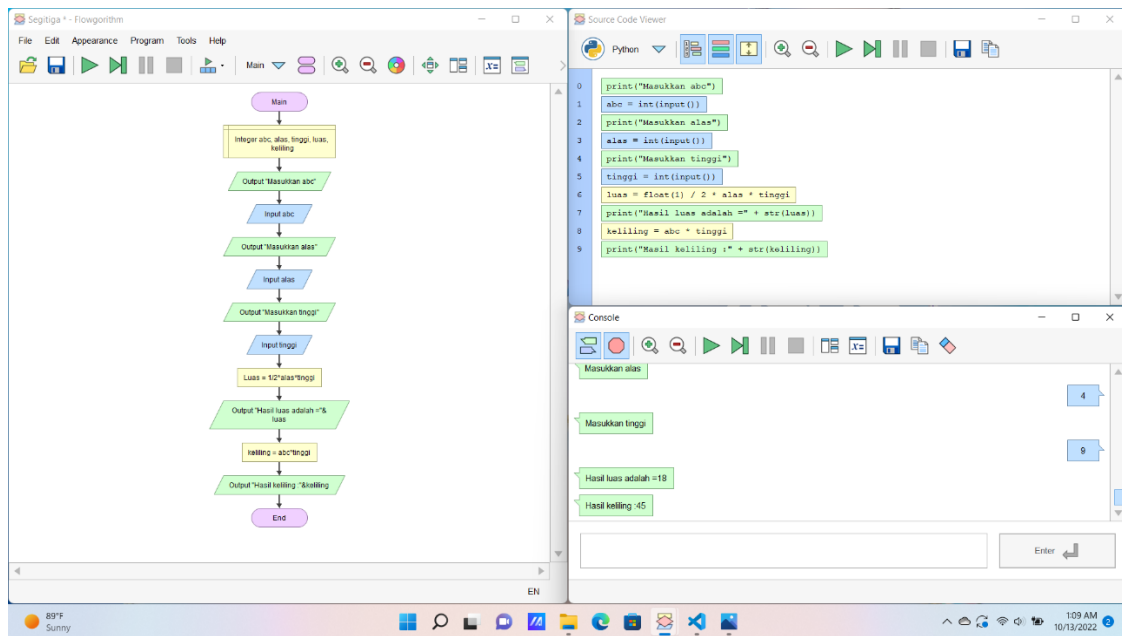
```
C:\Users\ASUS> Downloads > Tugas AI Mutiara > py > jajar_genjang.py > ...
1 print("Masukkan ab")
2 ab = int(input())
3 print("Masukkan tinggi")
4 tinggi = int(input())
5 luas = ab * tinggi
6 print("Hasil luas adalah :" + str(luas))
7 print("Masukkan cd")
8 cd = int(input())
9 keliling = ab + cd
10 print("Hasil keliling adalah :" + str(keliling))
11
```

Terminal output:

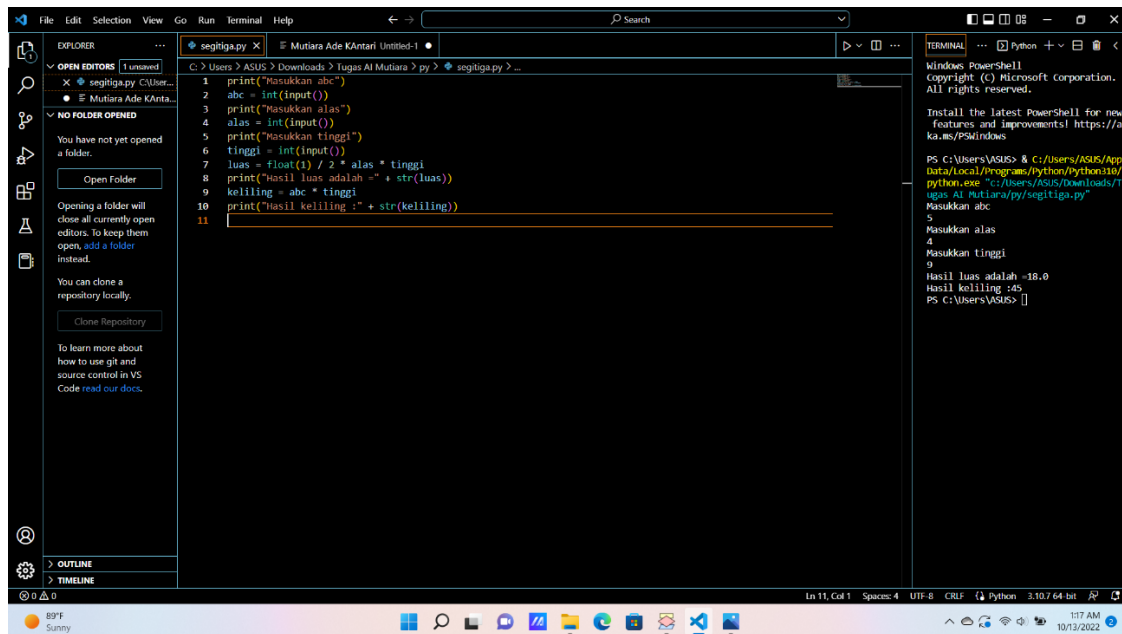
```
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\ASUS\Downloads\tugas AI Mutiara\py\jajar_genjang.py"
Masukkan ab
2
Masukkan tinggi
6
Hasil luas adalah :12
Masukkan cd
4
Hasil keliling adalah :6
PS C:\Users\ASUS>
```

## 4. Flowchart Segitiga





## VS-Code



## 5. Flowchart Belah Ketupat

The image displays two screenshots of a Python IDE (likely Thonny) showing a flowchart and its execution for a rhombus program.

**Top Screenshot:**

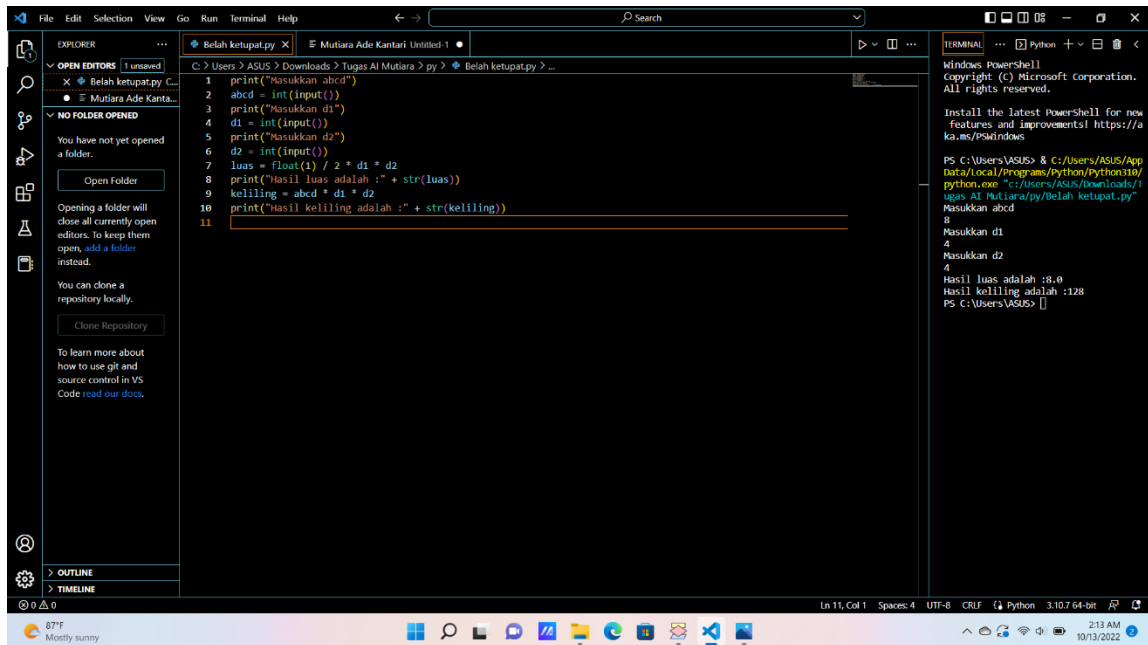
- Flowchart:** A vertical flowchart for a rhombus program. It starts with a 'Main' terminal block, followed by a process block 'Integer abcd, d1, d2, luas, keliling'. Then it goes through a series of output blocks: 'Output "Masukkan abcd"', 'Input abcd', 'Output "Masukkan d1"', 'Input d1', 'Output "Masukkan d2"', 'Input d2', 'Luas = 1/2\*d1\*d2', 'Output "Hasil luas adalah :& \n"', 'Keliling = abcd\*d1\*d2', 'Output "Hasil keliling adalah :& \n"', and finally an 'End' terminal block.
- Source Code Viewer:** Shows the following Python code:

```
0 print("Masukkan abcd")
1 abcd = int(input())
2 print("Masukkan d1")
3 d1 = int(input())
4 print("Masukkan d2")
5 d2 = int(input())
6 luas = float(1) / 2 * d1 * d2
7 print("Hasil luas adalah : " + str(luas))
8 keliling = abcd * d1 * d2
9 print("Hasil keliling adalah : " + str(keliling))
```
- Console:** Shows the initial input prompts: 'Masukkan abcd', 'Masukkan d1', and 'Masukkan d2'. The values 8, 4, and 4 are entered respectively.

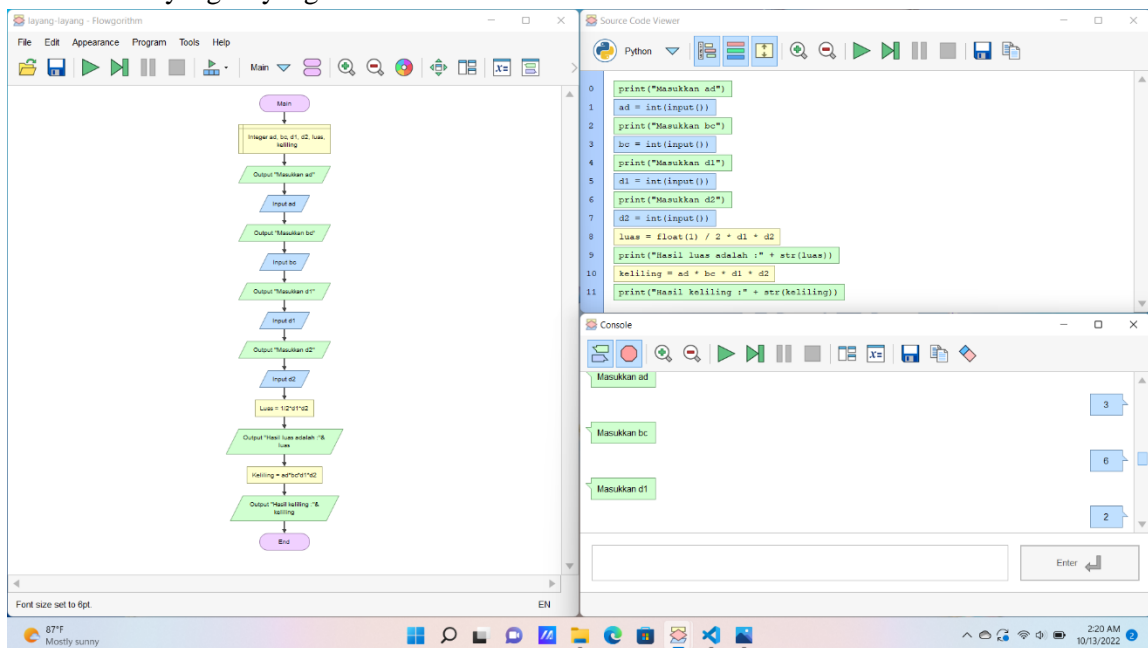
**Bottom Screenshot:**

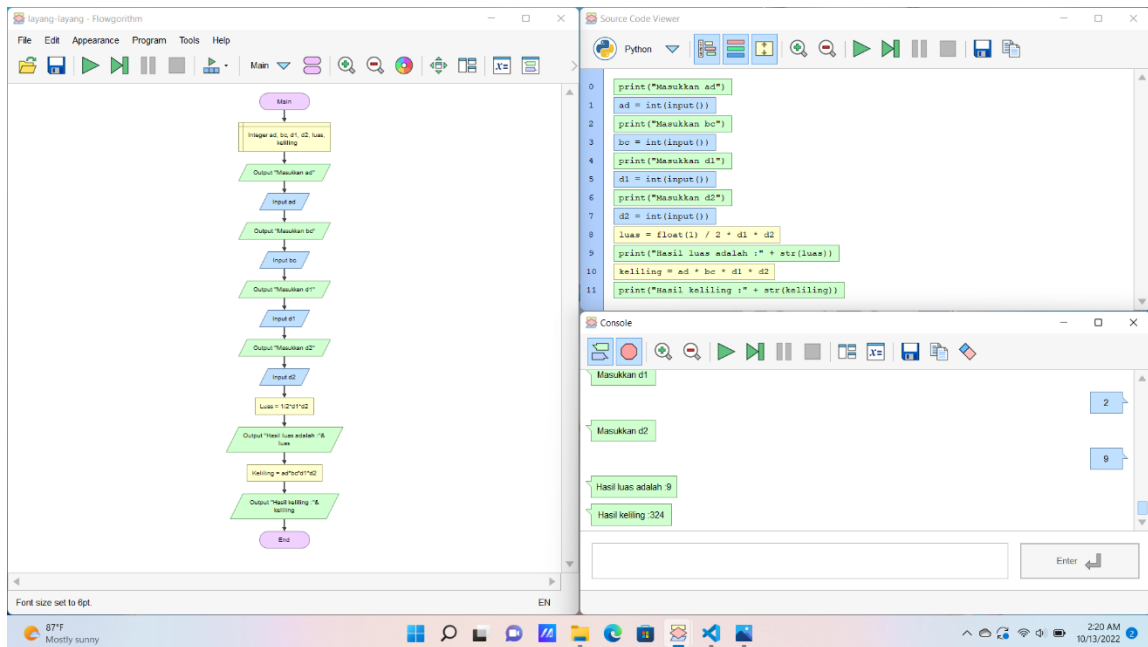
- Flowchart:** The same flowchart as in the top screenshot, but the execution has progressed further. The 'Luas = 1/2\*d1\*d2' block is now highlighted, and the 'Output "Hasil luas adalah :& \n"' block is the next step.
- Source Code Viewer:** The same Python code as in the top screenshot.
- Console:** Shows the results of the calculations: 'Masukkan d1' (4), 'Masukkan d2' (4), 'Hasil luas adalah 8', and 'Hasil keliling adalah 128'.

## VS-Code

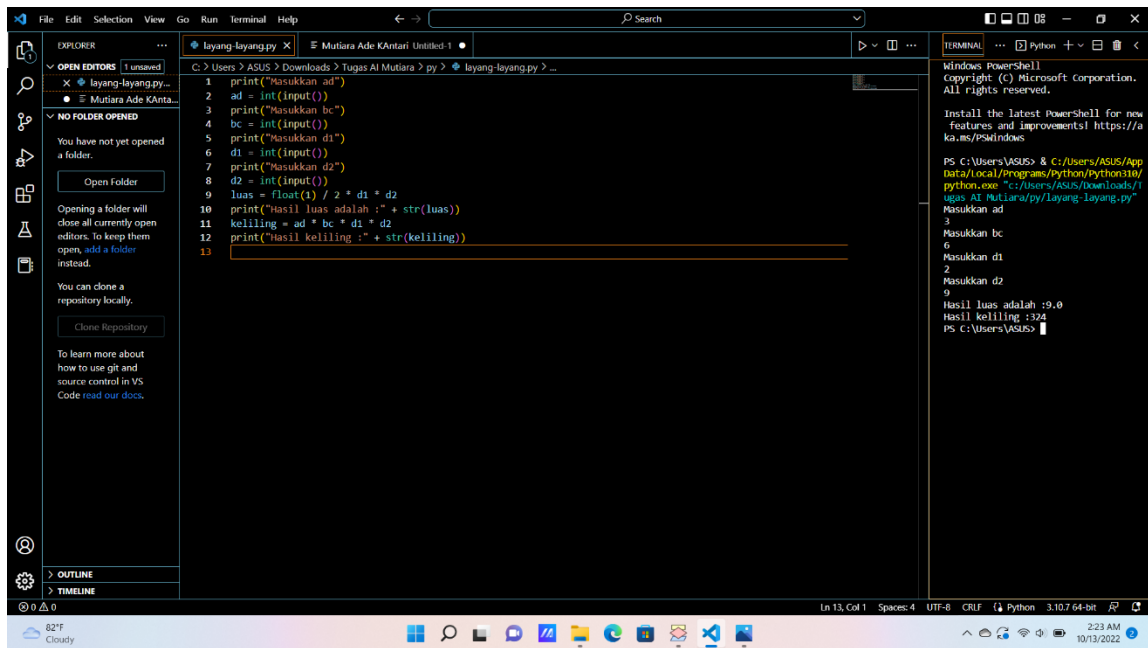


## 6. Flowchart Layang-Layang





## VS-Code





## 7. Flowchart Trapesium

The image displays two screenshots of a Python IDE (Trapesium - Flowgorithm) showing a program to calculate the area and perimeter of a trapezoid. The program uses the following logic:

- Initialize variables: `integer ab, cd, tinggi, luas, keliling`
- Output: "Masukkan ab"
- Input: `ab`
- Output: "Masukkan cd"
- Input: `cd`
- Output: "Masukkan tinggi"
- Input: `tinggi`
- Calculation: `luas = (ab+cd)*tinggi / 2`
- Output: "Hasil luas adalah :<code>luas</code>"
- Calculation: `keliling = ab + cd + tinggi`
- Output: "Hasil keliling adalah :<code>keliling</code>"
- End

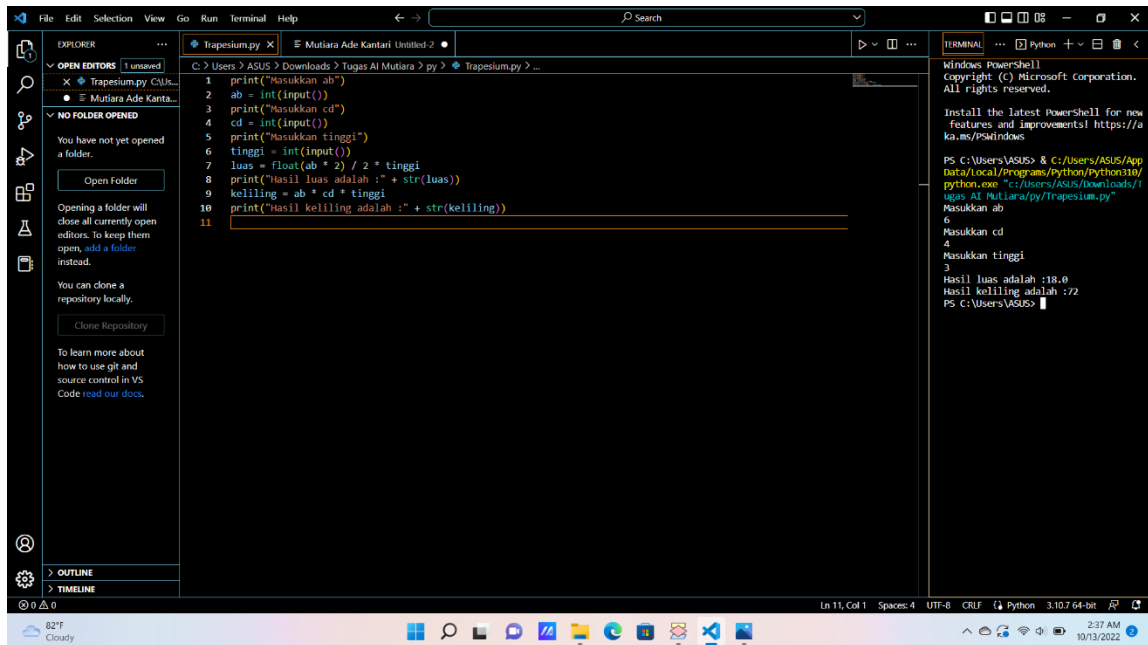
**Top Screenshot (Initial State):**

- Source Code Viewer shows the Python code for the program.
- Console shows the prompts: "Masukkan ab", "Masukkan cd", and "Masukkan tinggi".
- Inputs are empty.

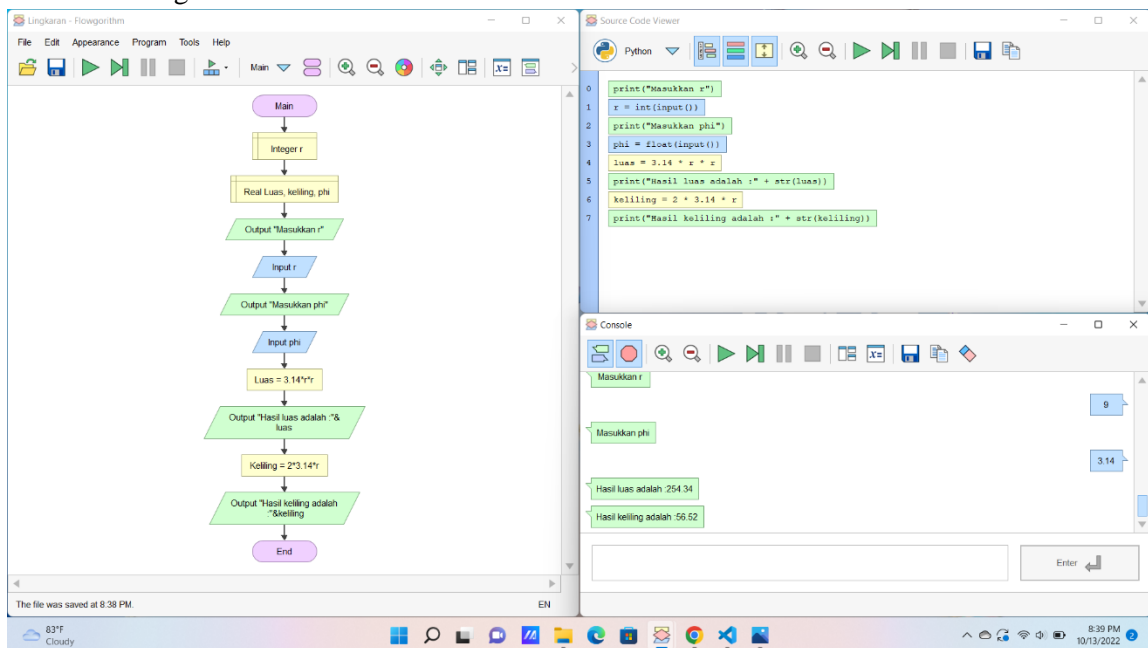
**Bottom Screenshot (Running State):**

- Source Code Viewer shows the same Python code.
- Console shows the prompts: "Masukkan cd", "Masukkan tinggi", "Hasil luas adalah :18", and "Hasil keliling adalah :72".
- Inputs are: `cd = 4` and `tinggi = 3`.

## VS-Code



## 8. Flowchart Lingkaran



## VS-Code

