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## Tugas 1 Minggu ke-2

### Menghitung Luas dan Keliling Bangun Datar

#### 1. Flowchart Menghitung Persegi Keliling

The screenshot displays a Python program in a code editor, its execution in a console, and a corresponding flowchart. The flowchart outlines the process: starting at 'Main', it declares variables 'sisi' and 'keliling', prompts for 'masukkan nilai sisi', receives input '4', calculates 'keliling = 4 \* sisi', and finally outputs 'maka nilai keliling = 16' before reaching 'End'. The Python code implements this logic, and the console shows the successful execution with the input '4' and output 'maka nilai keliling = 16'.

```
graph TD
    Main([Main]) --> Decl[Integer sisi, keliling]
    Decl --> Print[Output "masukkan nilai sisi"]
    Print --> Input[/Input sisi/]
    Input --> Calc[keliling = 4 * sisi]
    Calc --> Print2[Output "maka nilai keliling = %s" keliling]
    Print2 --> End([End])
```

```
Python
1 print("masukkan nilai sisi")
2 sisi = int(input())
3 keliling = 4 * sisi
4 print("maka nilai keliling =" + str(keliling))
```

```
masukkan nilai sisi
4
maka nilai keliling = 16
```

```
Python
1 print("masukkan nilai sisi")
2 sisi = int(input())
3 keliling = 4 * sisi
4 print("maka nilai keliling =" + str(keliling))
```

```
masukkan nilai sisi
4
maka nilai keliling = 16
```

#### Luas

The screenshot displays a Python program in a code editor, its execution in a console, and a corresponding flowchart. The flowchart outlines the process: starting at 'Main', it declares variables 'sisi' and 'luas', prompts for 'masukkan nilai sisi', receives input '16', calculates 'luas = sisi \* sisi', and finally outputs 'maka nilai luas = 256' before reaching 'End'. The Python code implements this logic, and the console shows the successful execution with the input '16' and output 'maka nilai luas = 256'.

```
graph TD
    Main([Main]) --> Decl[Integer sisi, luas]
    Decl --> Print[Output "masukkan nilai sisi"]
    Print --> Input[/Input sisi/]
    Input --> Calc[luas = sisi * sisi]
    Calc --> Print2[Output "maka nilai luas =" + str(luas)]
    Print2 --> End([End])
```

```
Python
1 print("masukkan nilai sisi")
2 sisi = int(input())
3 luas = sisi * sisi
4 print("maka nilai luas =" + str(luas))
```

```
masukkan nilai sisi
16
maka nilai luas = 256
```

```
Python
1 print("masukkan nilai sisi")
2 sisi = int(input())
3 luas = sisi * sisi
4 print("maka nilai luas =" + str(luas))
```

```
masukkan nilai sisi
16
maka nilai luas = 256
```

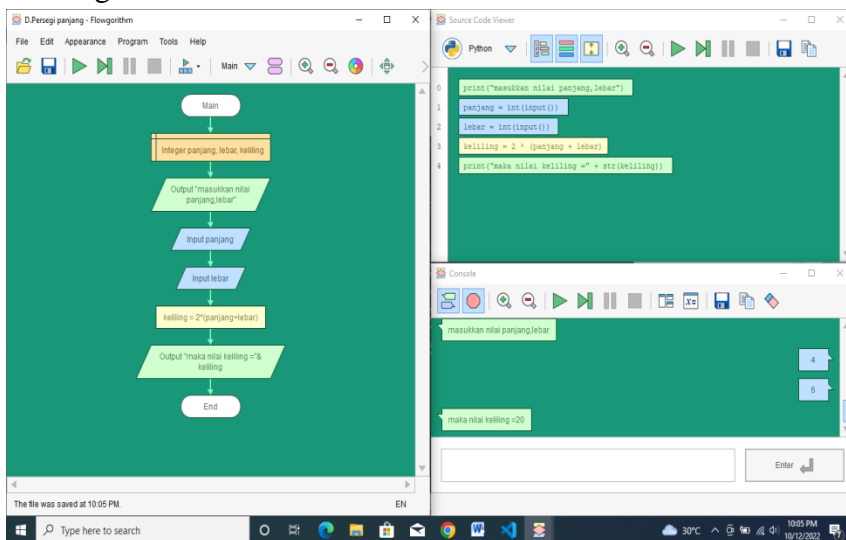
```
D:\Persegi-ayiah.py
1 print("masukkan nilai sisi")
2 sisi = int(input())
3 luas = sisi * sisi
4 print("maka nilai luas =" + str(luas))
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\VP> & C:\Users\VP\AppData\Local\Programs\Python\Python38\python.exe "C:\Users\VP\Documents\Persegi-ayiah.py"
masukkan nilai sisi
10
maka nilai luas =256
PS C:\Users\VP>
```

## 2. Flowchart Persegi Panjang Keliling



```
D:\Persegi panjang-ayiah.py
1 print("masukkan nilai panjang,lebar")
2 panjang = int(input())
3 lebar = int(input())
4 keliling = 2 * (panjang + lebar)
5 print("maka nilai keliling =" + str(keliling))
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\VP> & C:\Users\VP\AppData\Local\Programs\Python\Python38\python.exe "C:\Users\VP\Documents\Nurul Aisyah\Persegi panjang-ayiah.py"
masukkan nilai panjang,lebar
4
6
maka nilai keliling =20
PS C:\Users\VP>
```

## Luas

The screenshot displays a Python IDE with three main components:

- Flowchart:** A flowchart titled "D. Persegi panjang" (Rectangle) showing the logic for calculating the area. It starts with a "Main" terminal, followed by a process box "Integer panjang, lebar, luas", an output box "Output 'masukkan nilai panjang,lebar'", two input boxes "Input panjang" and "Input lebar", a process box "luas = panjang \* lebar", an output box "Output 'maka nilai luas =' + luas", and finally an "End" terminal.
- Source Code:** The Python code in the Source Code Viewer is:

```
print("masukkan nilai panjang,lebar")
panjang = int(input())
lebar = int(input())
luas = panjang * lebar
print("maka nilai luas =" + str(luas))
```
- Terminal:** The terminal window shows the execution of the program. It prompts for "masukkan nilai panjang,lebar", where the user enters "4" and "5". The output is "maka nilai luas =24".

## 3. Flowchart Jajar genjang Keliling

The screenshot displays a Python IDE with three main components:

- Flowchart:** A flowchart titled "D. Jajar genjang" (Parallelogram) showing the logic for calculating the perimeter. It starts with a "Main" terminal, followed by a process box "Integer a, b, c, d, keliling", an output box "Output 'masukkan nilai a,b,c,d'", four input boxes "Input a", "Input b", "Input c", and "Input d", a process box "keliling = a+b+c+d", an output box "Output 'maka nilai keliling =' + keliling", and finally an "End" terminal.
- Source Code:** The Python code in the Source Code Viewer is:

```
print("masukkan nilai a,b,c,d")
a = int(input())
b = int(input())
c = int(input())
d = int(input())
keliling = a + b + c + d
print("maka nilai keliling =" + str(keliling))
```
- Terminal:** The terminal window shows the execution of the program. It prompts for "masukkan nilai a,b,c,d", where the user enters "4", "5", "4", and "5". The output is "maka nilai keliling =20".

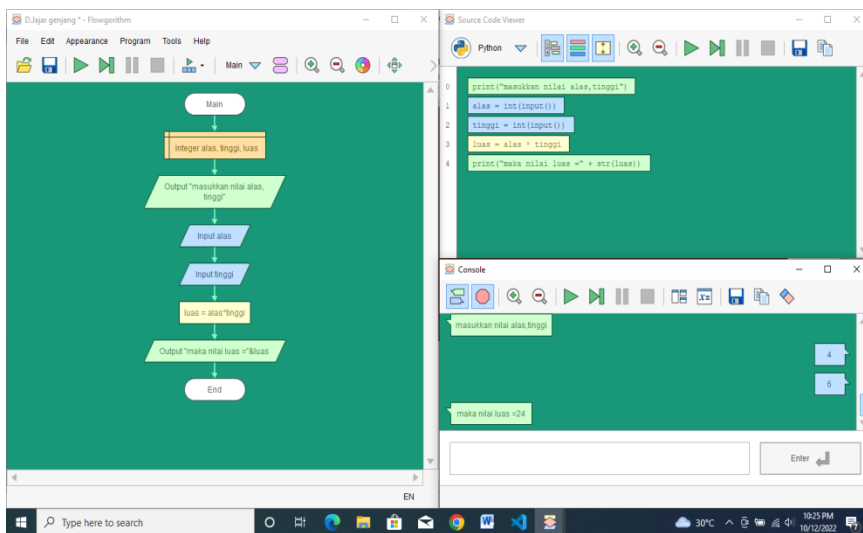
```
File Edit Selection View Go Run Terminal Help
D:\ajar genjang-aisyah.py X
C:\Users\HP> HP > Documents > Nurul Aisyah > D:\ajar genjang-aisyah.py > ...
1 print("masukkan nilai a,b,c,d")
2 a = int(input())
3 b = int(input())
4 c = int(input())
5 d = int(input())
6 keliling = a + b + c + d
7 print("maka nilai keliling =" + str(keliling))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\VP> & C:\Users\HP\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\HP\Documents\Nurul Aisyah\D.ajar genjang-aisyah.py"
masukkan nilai a,b,c,d
4
6
4
6
maka nilai keliling =20
PS C:\Users\VP>
```

## Luas



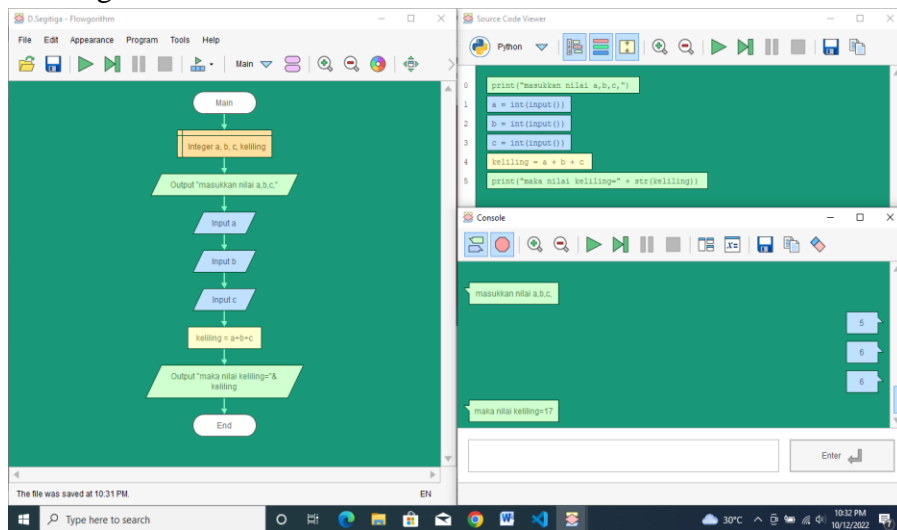
```
File Edit Selection View Go Run Terminal Help
D:\ajar genjang-aisyah.py D:\ajar genjang-aisyah.py X
C:\Users\HP> HP > Documents > Nurul Aisyah > D:\ajar genjang-aisyah.py > ...
1 print("masukkan nilai alas,tinggi")
2 alas = int(input())
3 tinggi = int(input())
4 luas = alas * tinggi
5 print("maka nilai luas =" + str(luas))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\VP> & C:\Users\HP\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\HP\Documents\Nurul Aisyah\D.luas ajar genjang-aisyah.py"
masukkan nilai alas,tinggi
4
5
maka nilai luas =24
PS C:\Users\VP>
```

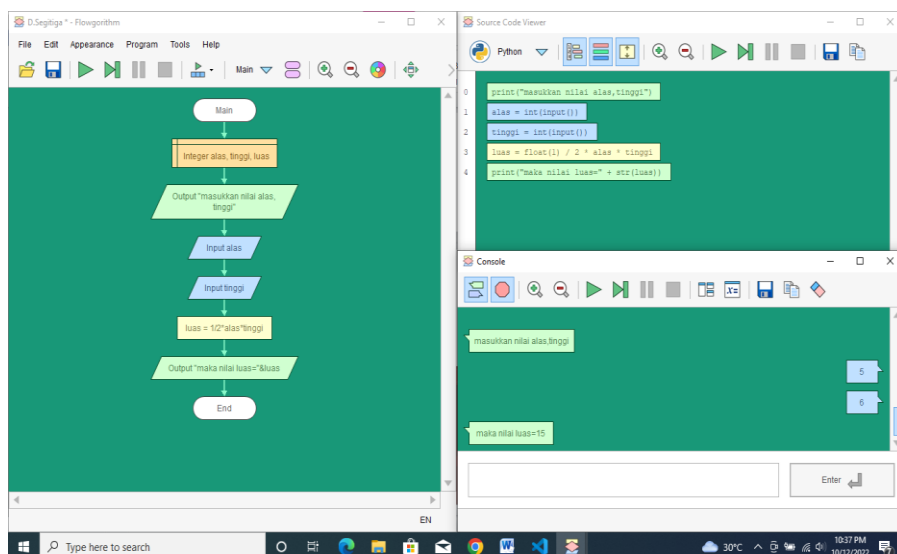
## 4. Flowchart Segitiga Keliling



The screenshot shows a Windows PowerShell terminal window with the following commands and output:

```
C:\Users\VP> cd "D:\Segitiga-aisyah"
C:\Users\VP> python D:\Segitiga-aisyah\aisyah.py
masukkan nilai a,b,c,
5
6
6
maka nilai keliling=17
PS C:\Users\VP>
```

## Luas



```

File Edit Selection View Go Run Terminal Help
D:Segitiga-aisyah.py
C:\Users\VP> HP > Documents > Nurul Aisyah > D:Luas segitiga-aisyah.py > ...
1 print("masukkan nilai alas,tinggi")
2 alas = int(input())
3 tinggi = int(input())
4 Luas = float(alas) / 2 * alas * tinggi
5 print("maka nilai luas=" + str(Luas))

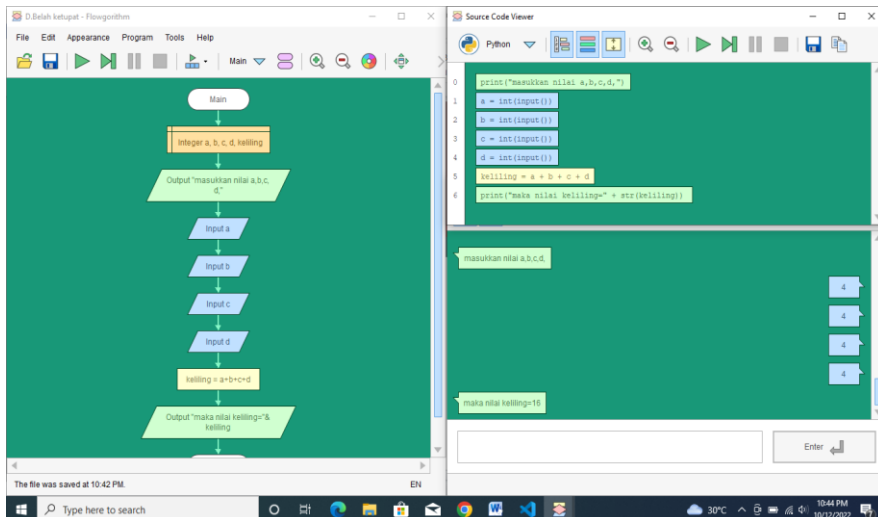
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\VP> & C:/Users/HP/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/HP/Documents/Nurul Aisyah/D:Luas segitiga-aisyah.py"
masukkan nilai alas,tinggi
5
6
maka nilai luas=15.0
PS C:\Users\VP>

```

## 5. Flowchart Belah ketupat Keliling



```

File Edit Selection View Go Run Terminal Help
D:Belah ketupat-aisyah.py
C:\Users\VP> HP > Documents > Nurul Aisyah > D:Belah ketupat-aisyah.py > ...
1 print("masukkan nilai a,b,c,d,")
2 a = int(input())
3 b = int(input())
4 c = int(input())
5 d = int(input())
6 keliling = a + b + c + d
7 print("maka nilai keliling=" + str(keliling))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\VP> & C:/Users/HP/AppData/Local/Programs/Python/Python310/python.exe "C:/Users/HP/Documents/Nurul Aisyah/D:Belah ketupat-aisyah.py"
masukkan nilai a,b,c,d,
4
4
4
4
maka nilai keliling=16
PS C:\Users\VP>

```

Luas

File

Edit

Appearance

Program

Tools

Help

Main

Integer d1, d2, luas

Output "masukkan nilai d1,d2"

Input d1

Input d2

luas = 1/2\*d1\*d2

Output "maka nilai luas="luas

End

Source Code Viewer

Python

```

0 print("masukkan nilai d1,d2")
1 d1 = int(input())
2 d2 = int(input())
3 luas = float(d1) / 2 * d1 * d2
4 print("maka nilai luas=" + str(luas))

```

Console

masukkan nilai d1,d2

6

6

Enter

File

Edit

Selection

View

Go

Run

Terminal

Help

D:Belah ketupat-aisyah.py

D:luas Belah ketupat-aisyah.py

C:\Users\HP> HP > Documents > Nurul Aisyah > D:luas Belah ketupat-aisyah.py > ...

```

1 print("masukkan nilai d1,d2")
2 d1 = int(input())
3 d2 = int(input())
4 luas = float(d1) / 2 * d1 * d2
5 print("maka nilai luas=" + str(luas))

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

Windows PowerShell

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Try the new cross-platform PowerShell https://aka.ms/powershell

```

PS C:\Users\HP> & "C:\Users\HP\AppData\Local\Programs\Python\Python318\python.exe" "C:\Users\HP\Documents\Nurul Aisyah\D:luas Belah ketupat-aisyah.py"
masukkan nilai d1,d2
6
6
maka nilai luas=18.0
PS C:\Users\HP>

```

## 6. Flowchart Layang-Layang Keliling

File

Edit

Appearance

Program

Tools

Help

Main

Integer a, b, c, d, keliling

Output "masukkan nilai a,b,c,d"

Input a

Input b

Input c

Input d

keliling = a+b+c+d

Output "maka nilai keliling ="keliling

Source Code Viewer

Python

```

0 print("masukkan nilai a,b,c,d")
1 a = int(input())
2 b = int(input())
3 c = int(input())
4 d = int(input())
5 keliling = a + b + c + d
6 print("maka nilai keliling =" + str(keliling))

```

masukkan nilai a,b,c,d

5

9

5

9

Enter

File

Edit

Selection

View

Go

Run

Terminal

Help

D:Keliling - Flowgorithm

C:\Users\HP> HP > Documents > Nurul Aisyah > D:Keliling - Flowgorithm > ...

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

JUPYTER

Windows PowerShell

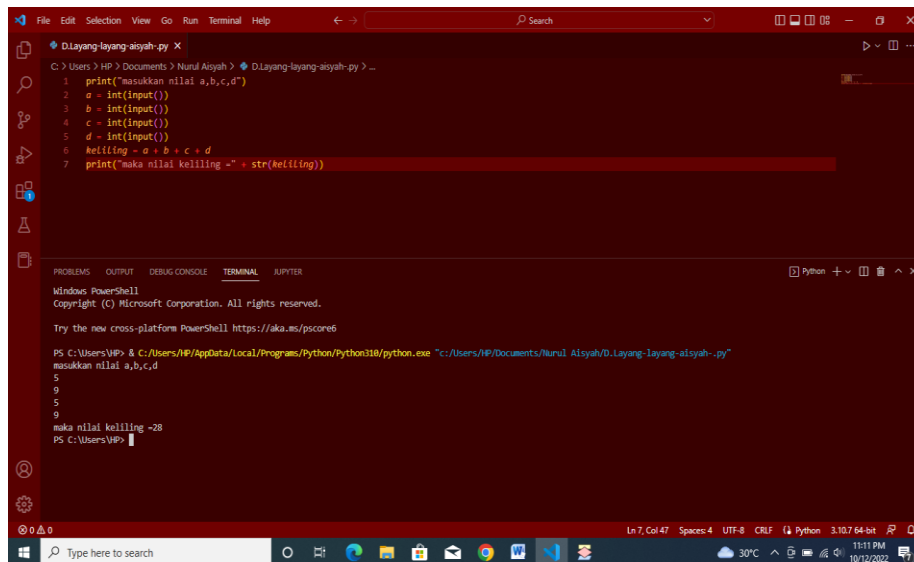
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Try the new cross-platform PowerShell https://aka.ms/powershell

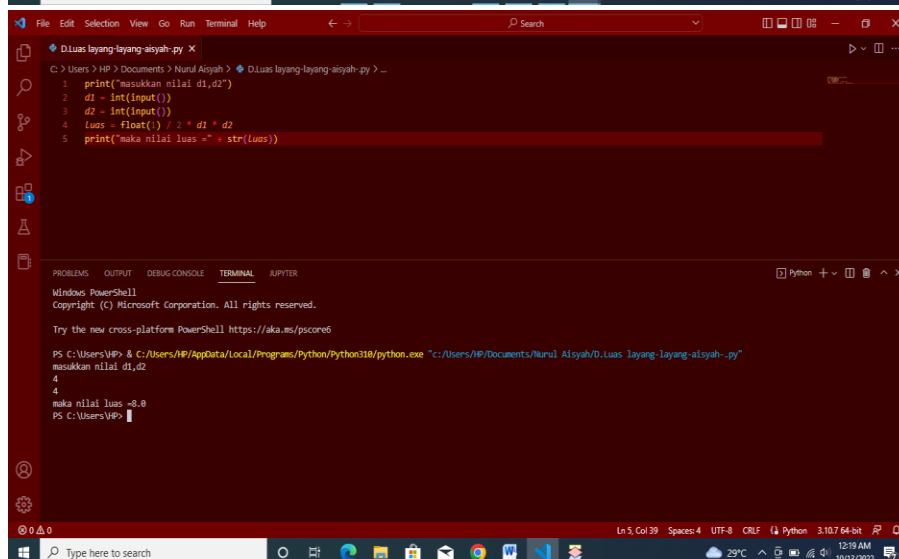
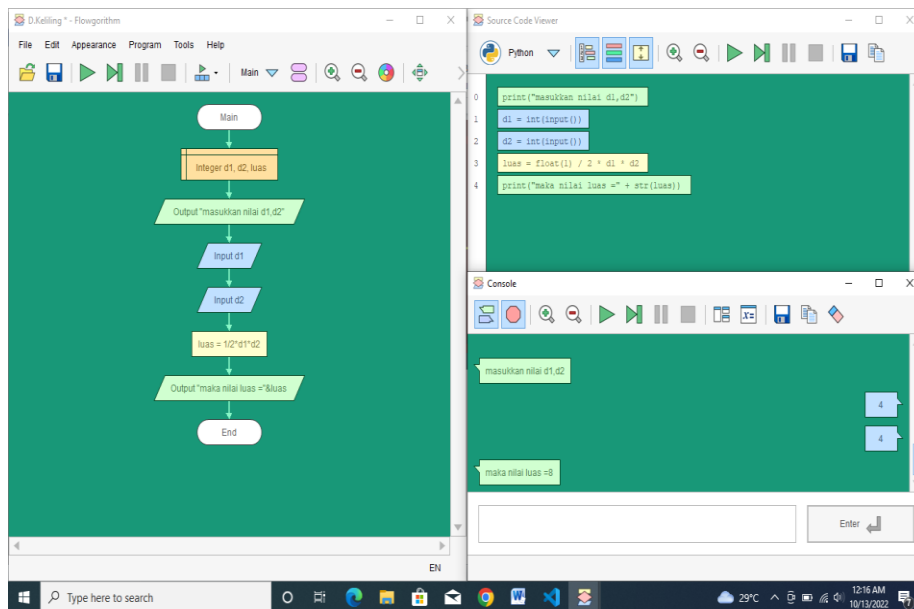
```

PS C:\Users\HP> & "C:\Users\HP\AppData\Local\Programs\Python\Python318\python.exe" "C:\Users\HP\Documents\Nurul Aisyah\D:Keliling - Flowgorithm"
masukkan nilai a,b,c,d
5
9
5
9
maka nilai keliling =28
PS C:\Users\HP>

```



Luas





## 7. Flowchart Trepesium Keliling

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 an 'Integer a, b, c, d, keliling' process box. It then proceeds to an 'Output "masukkan nilai a,b,c,d"' output box. This is followed by four sequential input boxes for 'a', 'b', 'c', and 'd'. The calculation 'keliling = a+b+c+d' is shown in a process box, leading to an 'Output "maka nilai keliling=%s keliling"' output box.

**Source Code:** The source code editor shows the following Python code:

```
0 print("masukkan nilai a,b,c,d,")
1 a = int(input())
2 b = int(input())
3 c = int(input())
4 d = int(input())
5 keliling = a + b + c + d
6 print("maka nilai keliling=" + str(keliling))
```

**Terminal:** The terminal window shows the execution of the program. It prompts for input values: 4, 6, 8, and 4. The output is: "maka nilai keliling=22".

## Luas

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

**Flowchart:** The flowchart starts with a 'Main' terminal, followed by an 'Integer a, b, t, luas' process box. It then proceeds to an 'Output "masukkan nilai a,b,t"' output box. This is followed by three sequential input boxes for 'a', 'b', and 't'. The calculation 'luas = a+b\*t/2' is shown in a process box, leading to an 'Output "maka nilai luas=%s luas"' output box, and finally an 'End' terminal.

**Source Code:** The source code editor shows the following Python code:

```
0 print("masukkan nilai a,b,t")
1 a = int(input())
2 b = int(input())
3 t = int(input())
4 luas = a + b * t / 2 + 0.5
5 print("maka nilai luas=" + str(luas))
```

**Console:** The console window shows the execution of the program. It prompts for input values: 8, 6, and 4. The output is: "maka nilai luas=20".

```

File Edit Selection View Go Run Terminal Help
D:\Trapesium-aisyah.py D:\Trapesium-aisyah.py X
C:\Users\HP> HP > Documents > Nurul Aisyah > D:\Trapesium-aisyah.py > ...
1 print("masukkan nilai a,b,t")
2 a = int(input())
3 b = int(input())
4 t = int(input())
5 luas = a + float(b) / 2 * t
6 print("maka nilai luas=" + str(luas))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python Python 3.10.7 64-bit

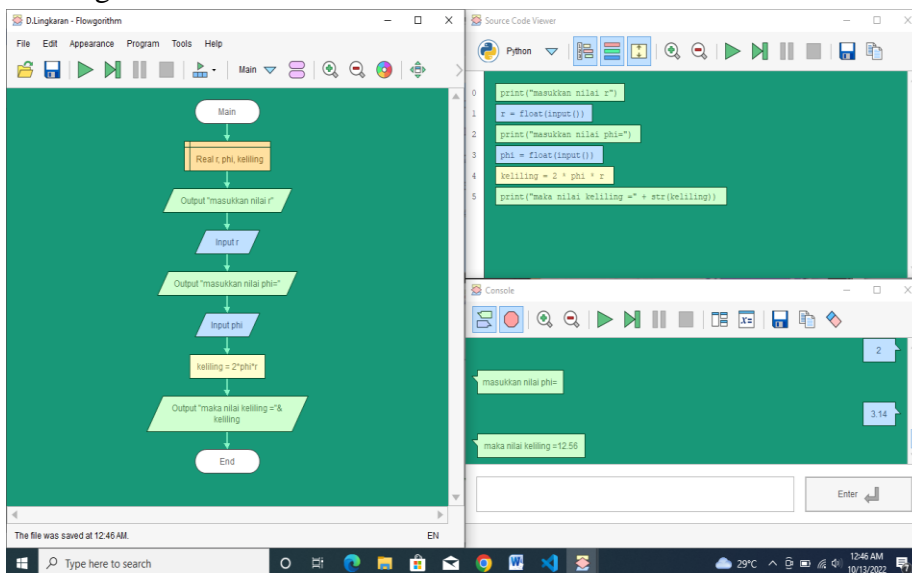
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\HP> & C:\Users\HP\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/HP/Documents/Nurul Aisyah/D:\Trapesium-aisyah.py"
masukkan nilai a,b,t
8
6
4
maka nilai luas=28.8
PS C:\Users\HP>

```

## 8. Flowchart Lingkaran Keliling



```

File Edit Selection View Go Run Terminal Help
D:\Lingkaran-aisyah.py X
C:\Users\HP> HP > Documents > Nurul Aisyah > D:\Lingkaran-aisyah.py > ...
1 print("masukkan nilai r")
2 r = float(input())
3 print("masukkan nilai phi=")
4 phi = float(input())
5 keliling = 2 * phi * r
6 print("maka nilai keliling =" + str(keliling))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python Python 3.10.7 64-bit

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\Users\HP> & C:\Users\HP\AppData\Local\Programs\Python\Python310\python.exe "c:/Users/HP/Documents/Nurul Aisyah/D:\Lingkaran-aisyah.py"
masukkan nilai r
2
masukkan nilai phi=
3.14
maka nilai keliling =12.56
PS C:\Users\HP>

```

# Luas

The image displays a Python program for calculating the area of a circle, presented in three main components: a flowchart, source code, and terminal execution.

**Flowchart (D.Lingkaran luas - Flowgorithm):**

```
graph TD
    Main([Main]) --> Real[Real: r, phi, luas]
    Real --> Output1[/Output "masukkan nilai r,phi: "/]
    Output1 --> Inputr[/Input r/]
    Inputr --> Inputphi[/Input phi/]
    Inputphi --> Luas[luas = phi * r * r]
    Luas --> Output2[/Output "maka nilai luas = " <math>luas</math> /]
    Output2 --> End([End])
```

**Source Code (Source Code Viewer):**

```
print("masukkan nilai r,phi=")
r = float(input())
phi = float(input())
luas = phi * r * r
print("maka nilai luas =" + str(luas))
```

**Terminal Output (Terminal):**

```
C:\Users\HP> python D:\Luas lingkaran-aisyah.py
1 print("masukkan nilai r,phi=")
2 r = float(input())
3 phi = float(input())
4 luas = phi * r * r
5 print("maka nilai luas =" + str(luas))

masukkan nilai r,phi=
2
3.14
maka nilai luas =12.56
```