


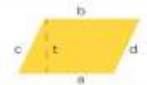

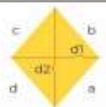
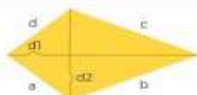
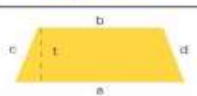



Nama : Rosa Larasati

NIM : 211001074

Kelas : 3D

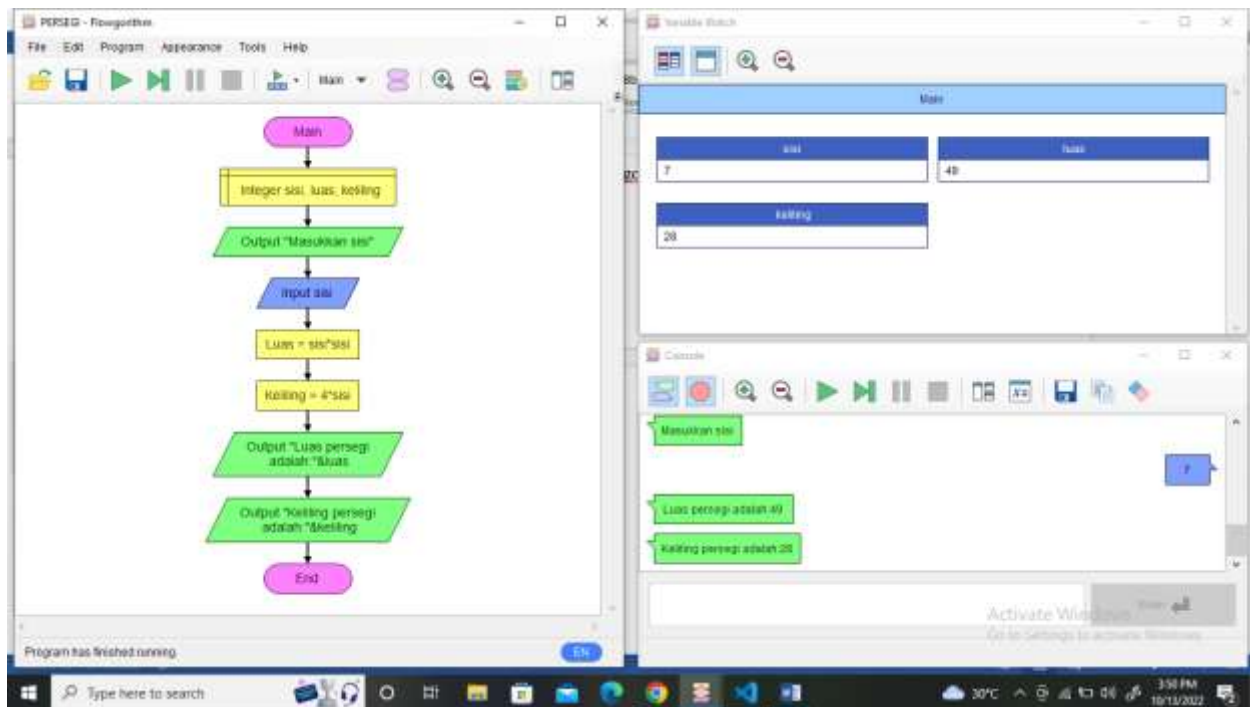
MINGGU KE II-1 KECERDASAN BUATAN

RUMUS LUAS DAN KELILING BANGUN DATAR 			
NAMA BANGUN	GAMBAR/BENTUK	KELILING	LUAS
PERSEGI		$K = 4 \times s$	$L = s \times s$
PERSEGI PANJANG		$K = (2 \times p) + (2 \times l) = 2(p + l)$	$L = p \times l$
AJAR GENJANG		$K = a + b + c + d$	$L = a \times t$
SEGITIGA		$K = a + b + c$	$L = \frac{1}{2} \times a \times t$
BELAH KETUPAT		$K = a + b + c + d$	$L = \frac{1}{2} \times d_1 \times d_2$
LAYANG-LAYANG		$K = a + b + c + d$	$L = \frac{1}{2} \times d_1 \times d_2$
TRAPESIUM		$K = a + b + c + d$	$L = \frac{a+b}{2} \times t$
LINGKARAN		$K = 2 \times \pi \times r$	$L = \pi \times r \times r$

Berdasarkan dari gambar rumus Luas dan Keliling Bangunan datar di atas:

1. Buatlah flowchart dengan menggunakan flowgorithm berdasarkan Setiap rumus Luas dan Keliling Bangunan datar, Jalankan sesuai dengan inputan kalian sampai menemukan hasil.
2. Kemudian ketik ulang SC pada flowgorithm ke Vs- code, Jalakan sampai menemukan Hasil.

1. PERSEGI



The screenshot displays a Python IDE with a code editor and a terminal. The code editor shows the following Python code:

```
1 print("Masukkan sisi")
2 sisi = int(input())
3 luas = sisi * sisi
4 keliling = 4 * sisi
5 print("Luas persegi adalah:" + str(luas))
6 print("keliling persegi adalah:" + str(keliling))
7
```

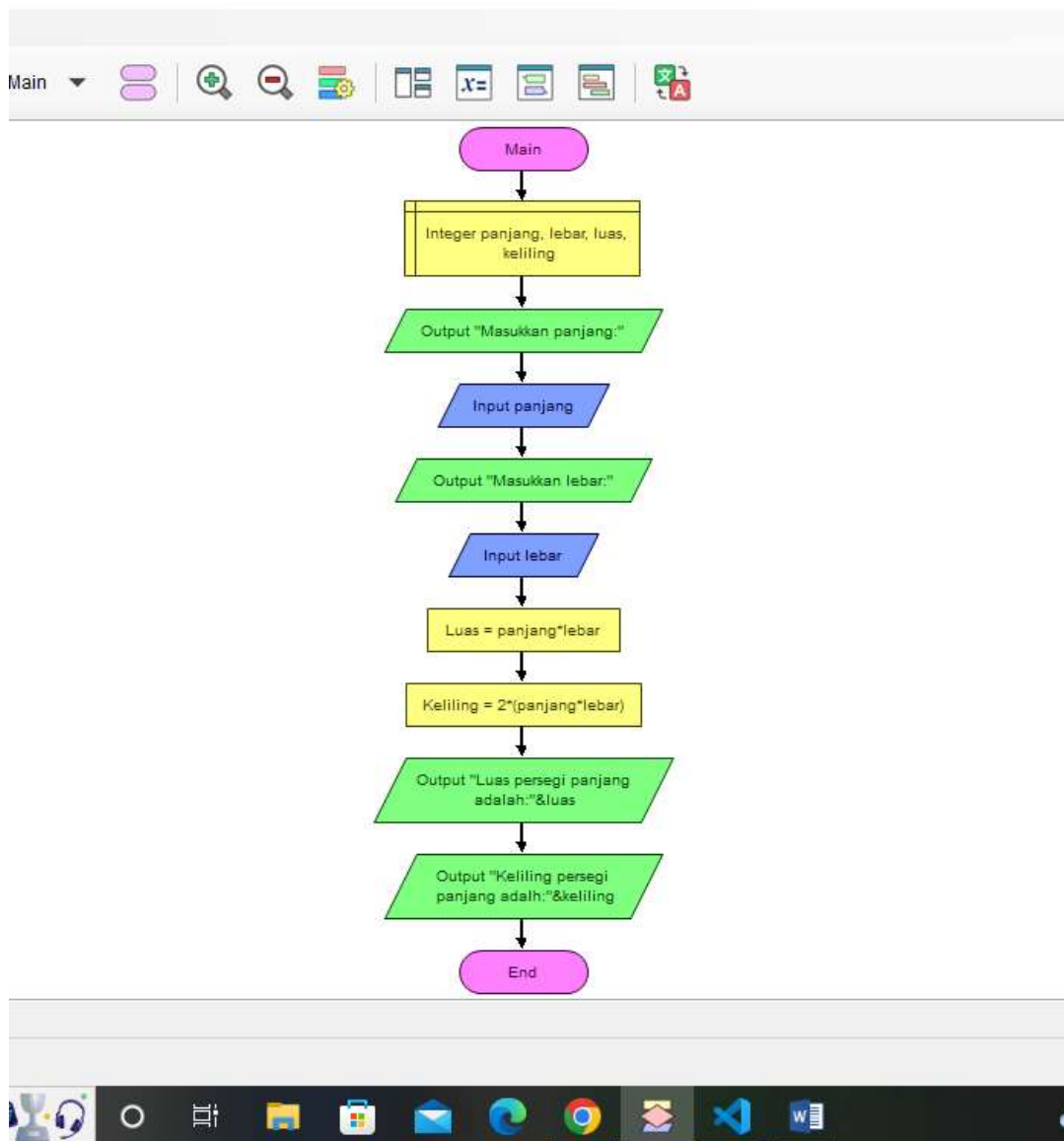
The terminal window shows the output of the program:

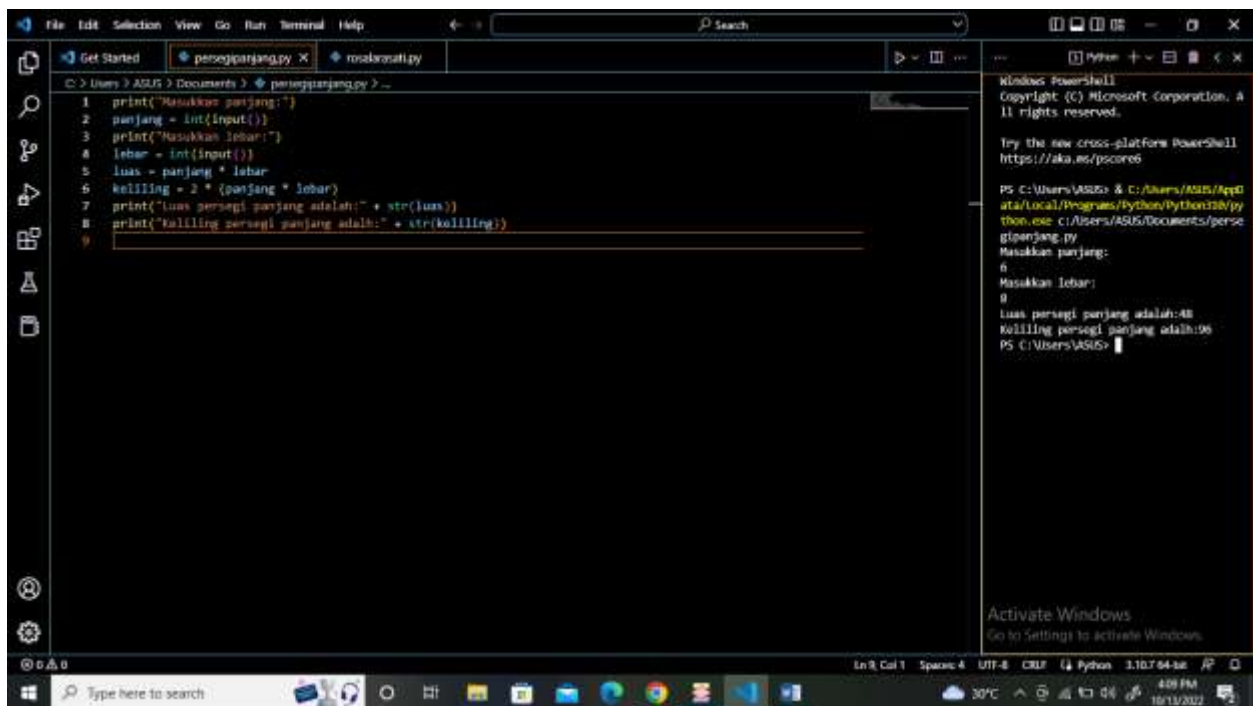
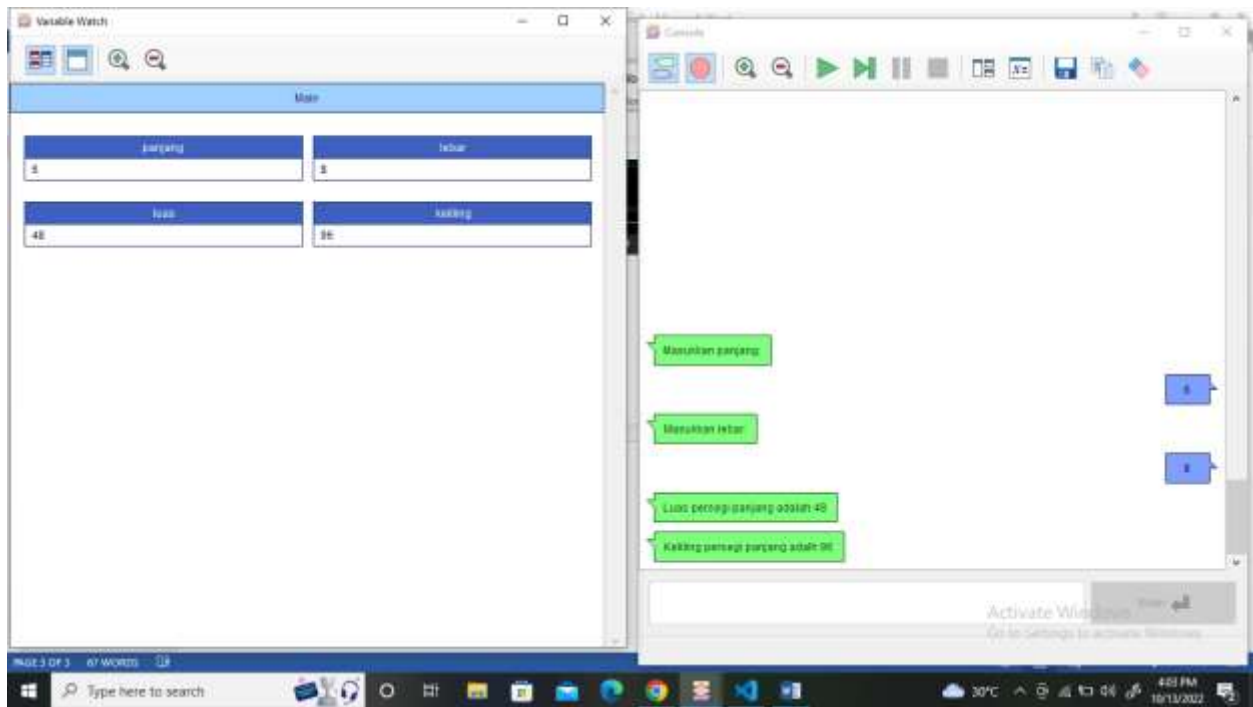
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

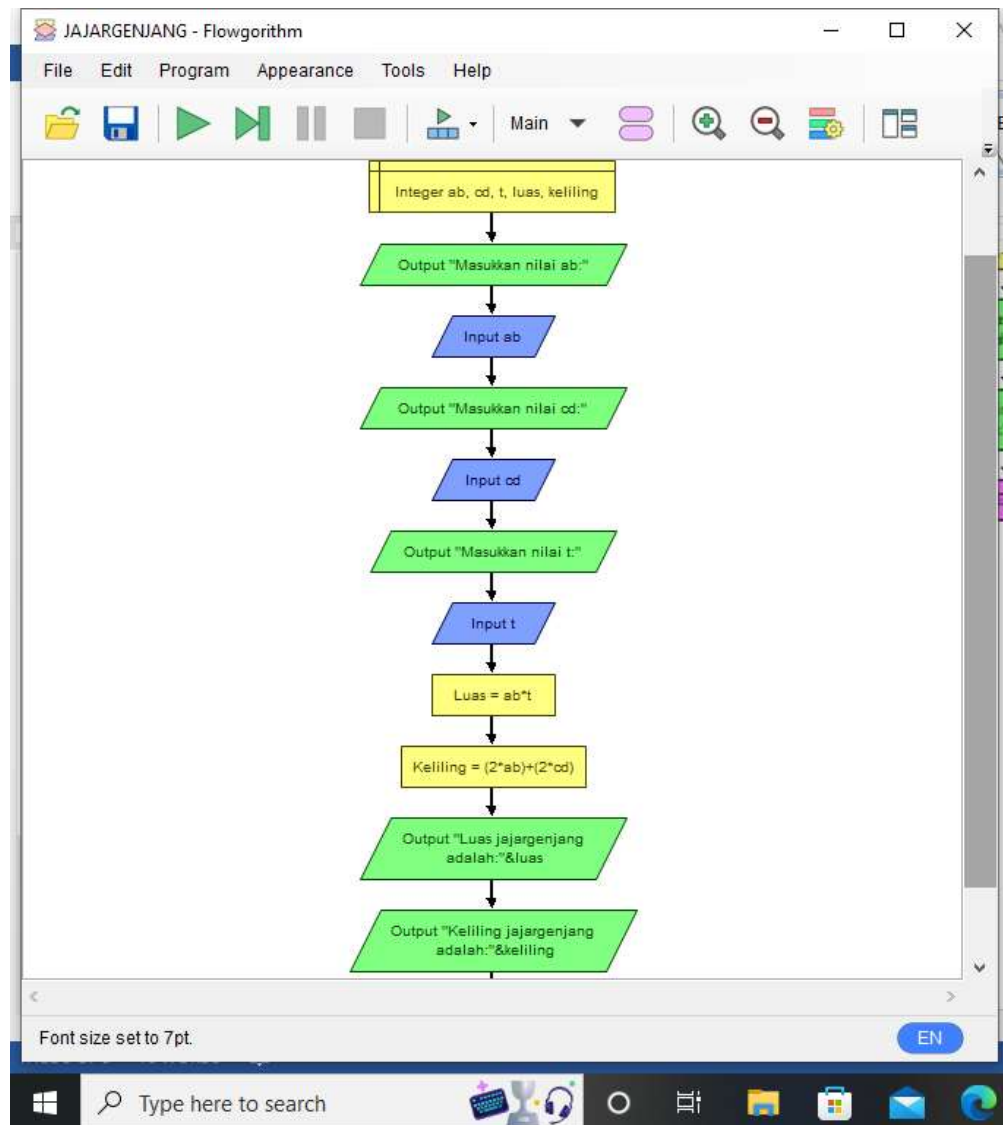
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Documents\1.kipervsegi.py"
Masukkan sisi
7
Luas persegi adalah:49
keliling persegi adalah:28
PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\ASUS\Documents\1.kipervsegi.py"
Masukkan sisi
```

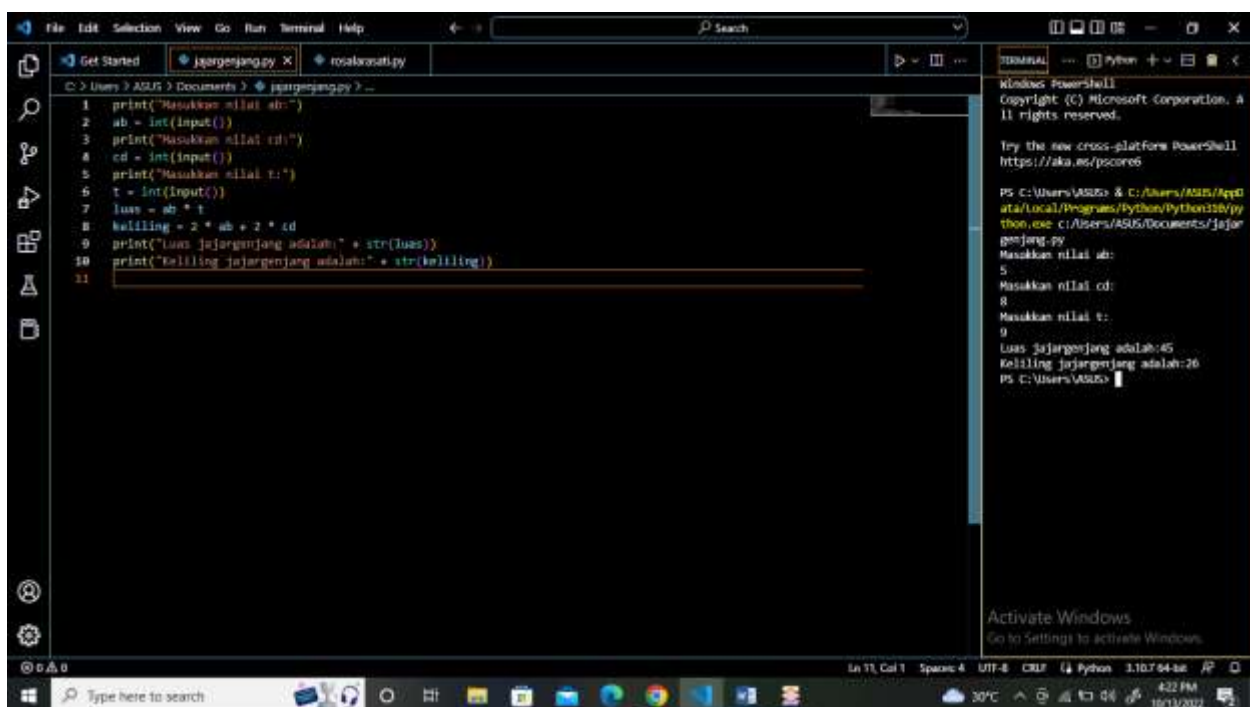
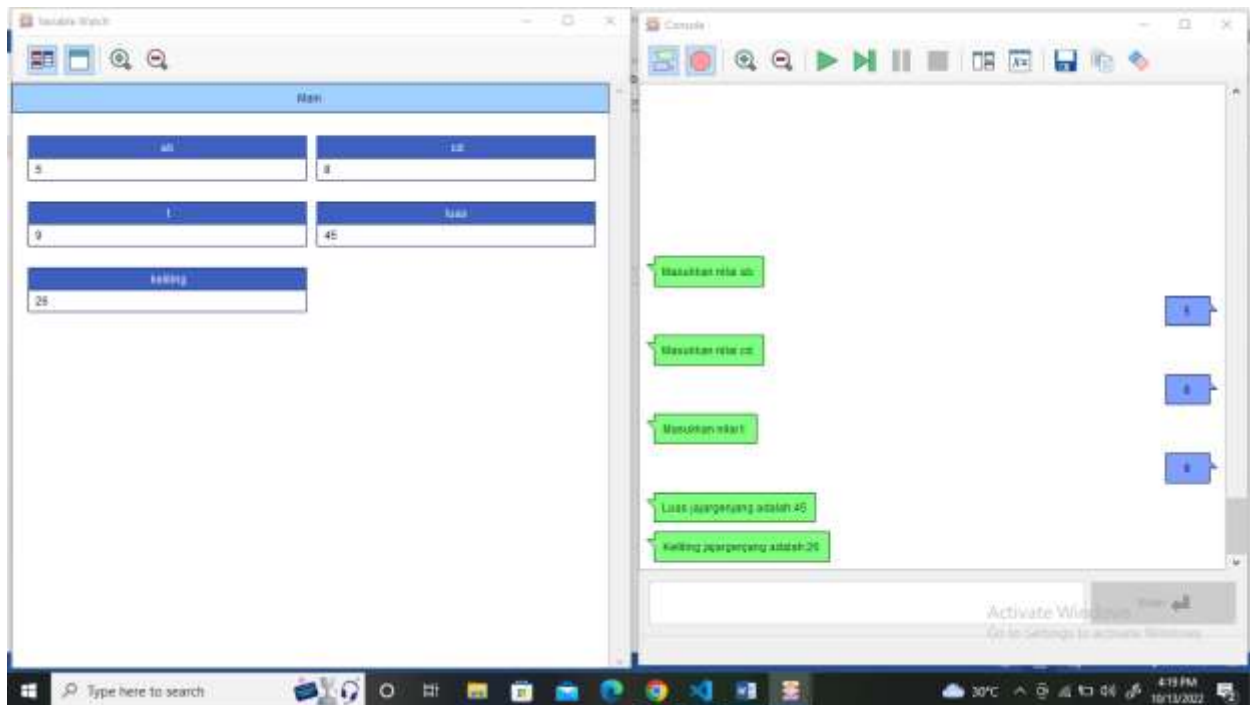
2. PERSEGI PANJANG



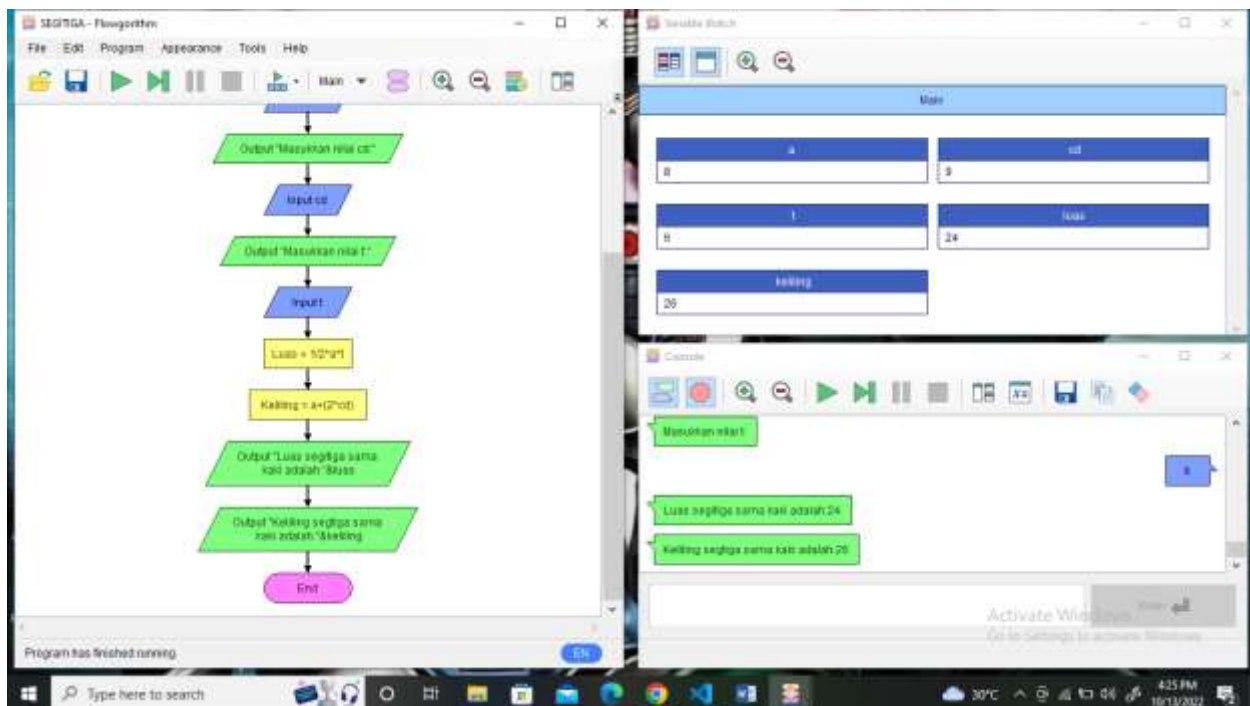
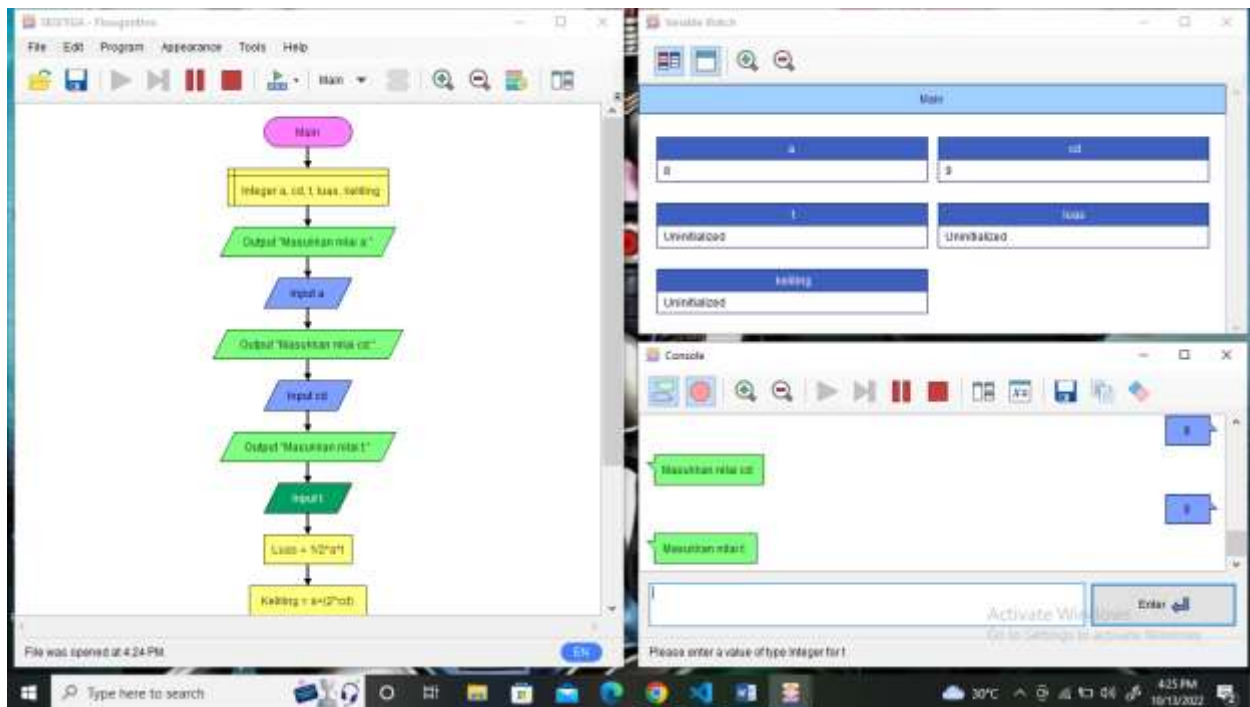


3. JAJAR GENJANG





4. SEGITGA SAMA KAKI



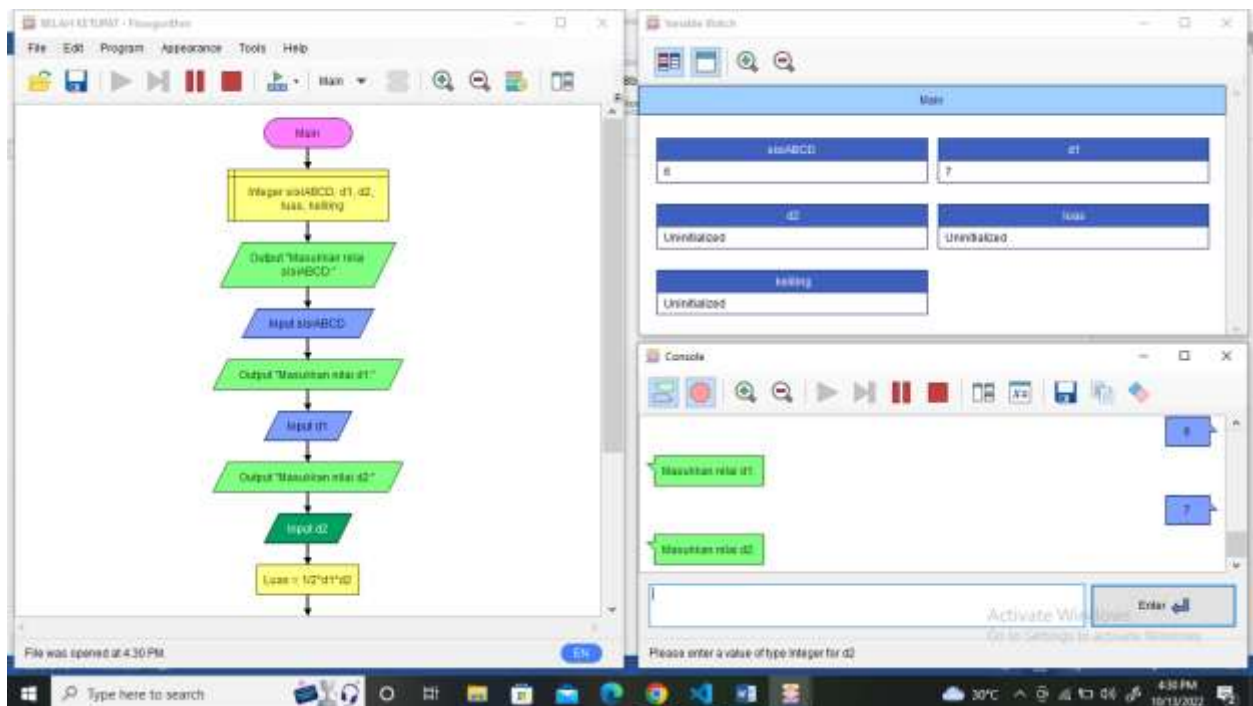

```

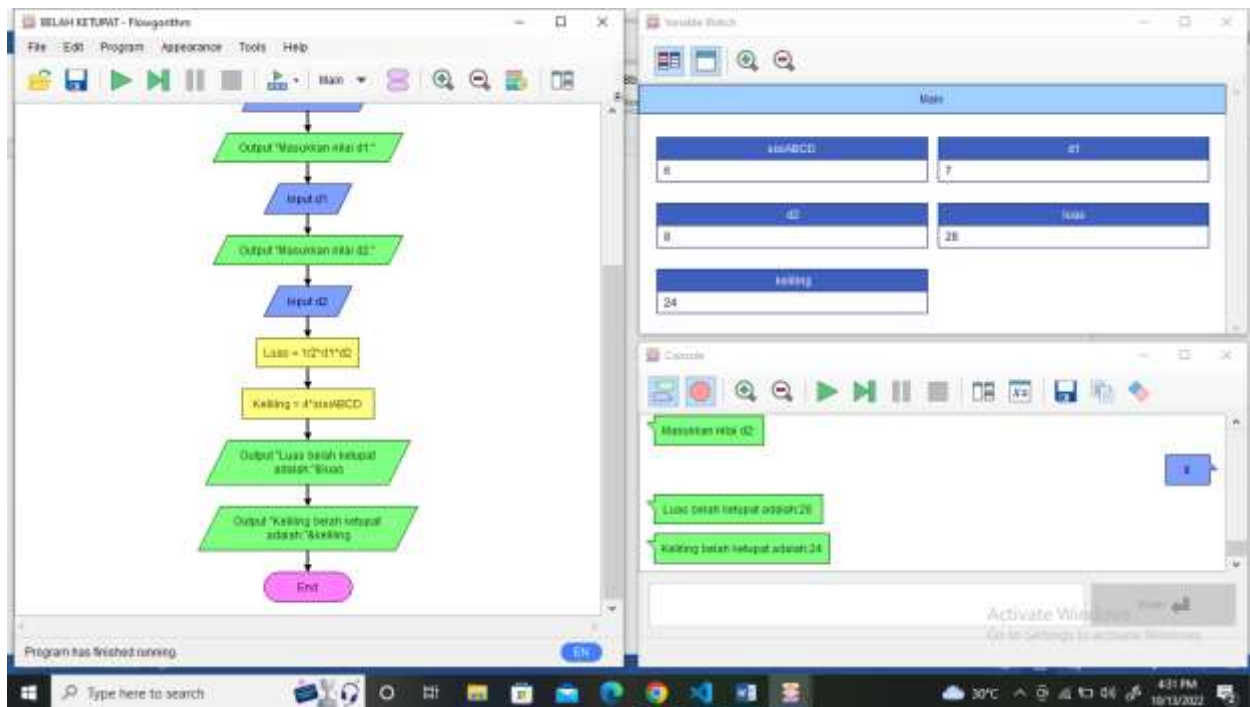
1 print("Masukkan nilai a:")
2 a = int(input())
3 print("Masukkan nilai d:")
4 d = int(input())
5 print("Masukkan nilai t:")
6 t = int(input())
7 luas = float(1) / 2 * a * t
8 keliling = a + 2 * d
9 print("Luas segitiga sama kaki adalah:" + str(luas))
10 print("keliling segitiga sama kaki adalah:" + str(keliling))
11

```

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell
<https://aka.ms/pscore6>
PS C:\Users\ASUS > C:\Users\ASUS\AppData\Local\Programs\Python\Python38\python.exe c:\Users\ASUS\Documents\segitiga.py
Masukkan nilai a:
8
Masukkan nilai d:
9
Masukkan nilai t:
6
Luas segitiga sama kaki adalah:24.6
Keliling segitiga sama kaki adalah:26
PS C:\Users\ASUS >

5. BELAH KETUPAT





```

1 print("Masukkan nilai sisiABCD:")
2 sisiABCD = int(input())
3 print("Masukkan nilai d1:")
4 d1 = int(input())
5 print("Masukkan nilai d2:")
6 d2 = int(input())
7 luas = float(1) / 2 * d1 * d2
8 keliling = 4 * sisiABCD
9 print("Luas belah ketupat adalah:" + str(luas))
10 print("Keliling belah ketupat adalah:" + str(keliling))
  
```

Terminal Output:

```

PS C:\Users\ASUS> & C:\Users\ASUS\AppData\Local\Programs\Python\Python38\python.exe c:\Users\ASUS\Documents\belah ketupat.py
Masukkan nilai sisiABCD:
6
Masukkan nilai d1:
7
Masukkan nilai d2:
8
Luas belah ketupat adalah:28.6
Keliling belah ketupat adalah:24
PS C:\Users\ASUS>
  
```

6. LAYANG-LAYANG

LAYANG-LAYANG - Flowgorithm

```

graph TD
    Start([Start]) --> Decl[Integer ad, bc, d1, d2, luas, keliling]
    Decl --> OutBC[Output "Masukkan nilai bc:"]
    OutBC --> InAD[Input ad]
    InAD --> OutBC2[Output "Masukkan nilai bc:"]
    OutBC2 --> InBC[Input bc]
    InBC --> CalcKel[Calculation: keliling = (2*ad)+(2*bc)]
    CalcKel --> OutKel[Output "Maka keliling Layang-layang adalah: " + keliling]
    OutKel --> OutD1[Output "Masukkan nilai d1:"]
    
```

Variable Window:

ad	bc
7	8
d1	d2
Uninitialized	Uninitialized
luas	keliling
Uninitialized	30

Console:

```

Masukkan nilai bc:
Maka keliling Layang-layang adalah 30
Please enter a value of type Integer for d1
  
```

LAYANG-LAYANG - Flowgorithm

```

graph TD
    Decl[Integer ad, bc, d1, d2, luas, keliling] --> CalcKel[Calculation: keliling = (2*ad)+(2*bc)]
    CalcKel --> OutKel[Output "Maka keliling Layang-layang adalah: " + keliling]
    OutKel --> OutD1[Output "Masukkan nilai d1:"]
    OutD1 --> InD1[Input d1]
    InD1 --> OutD2[Output "Masukkan nilai d2:"]
    OutD2 --> InD2[Input d2]
    InD2 --> CalcLuas[Calculation: luas = 1/2*d1*d2]
    CalcLuas --> OutLuas[Output "Maka luas Layang-layang adalah: " + luas]
    OutLuas --> End([End])
    
```

Variable Window:

ad	bc
7	8
d1	d2
8	9
luas	keliling
27	30

Console:

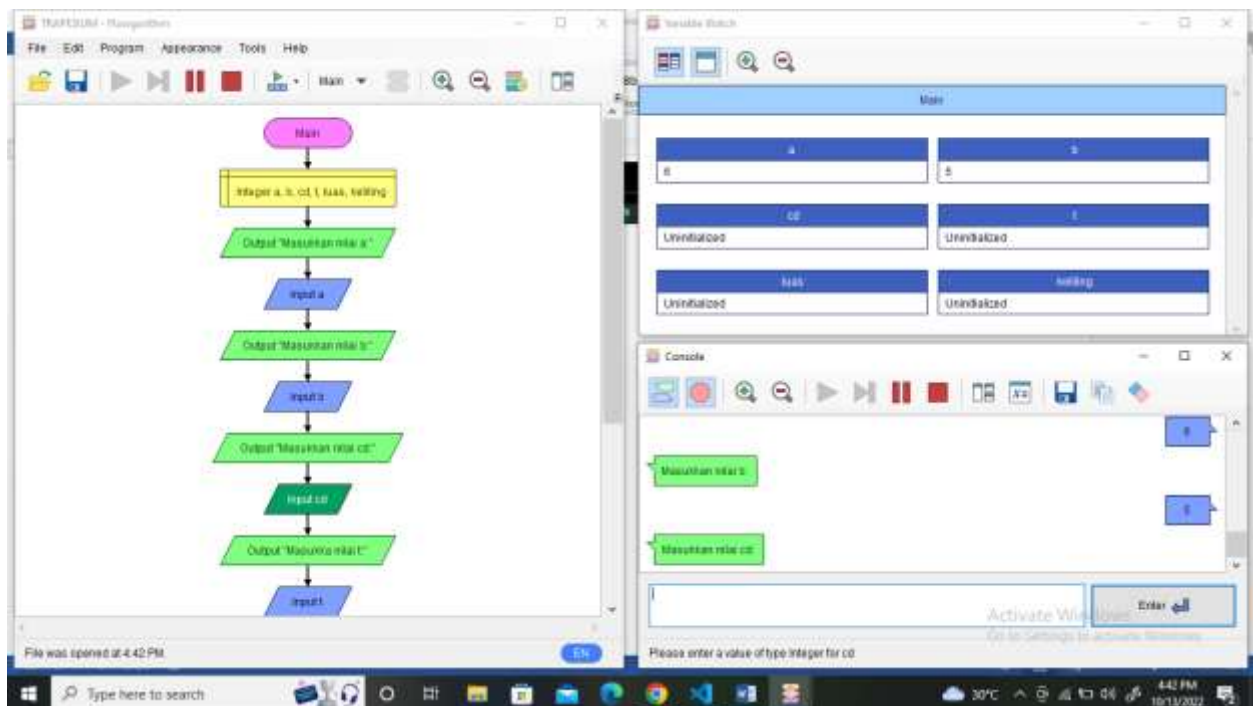
```

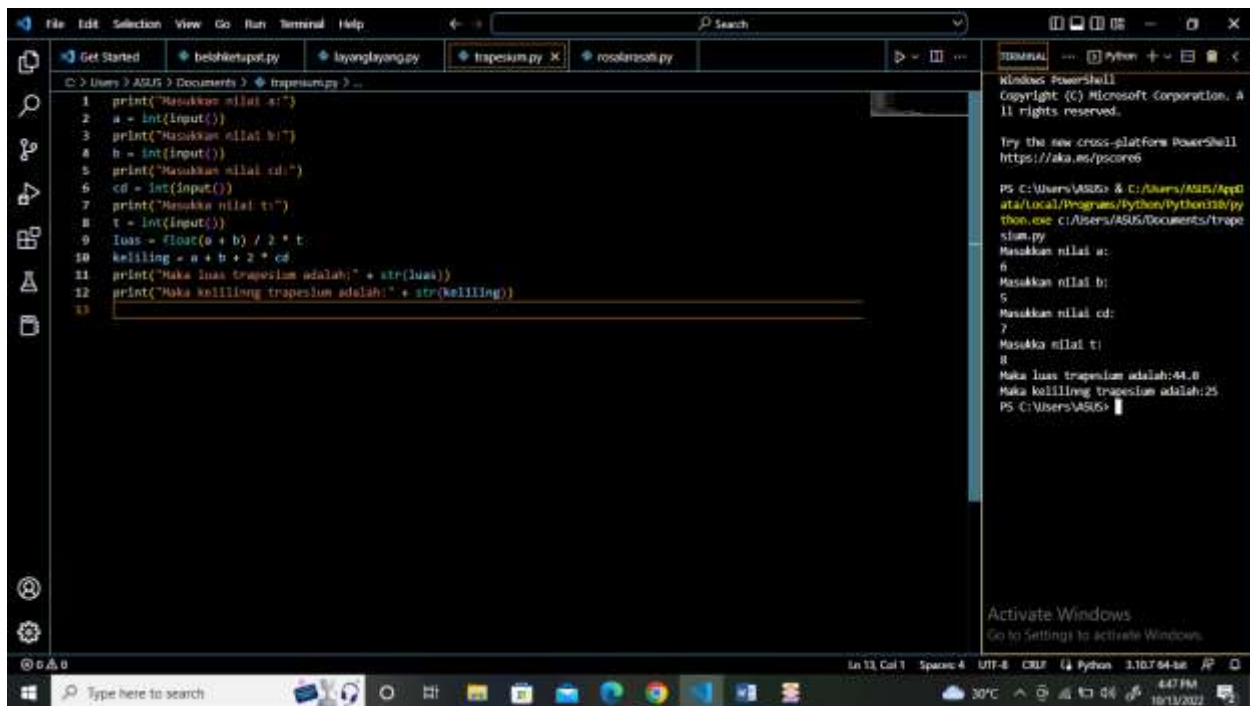
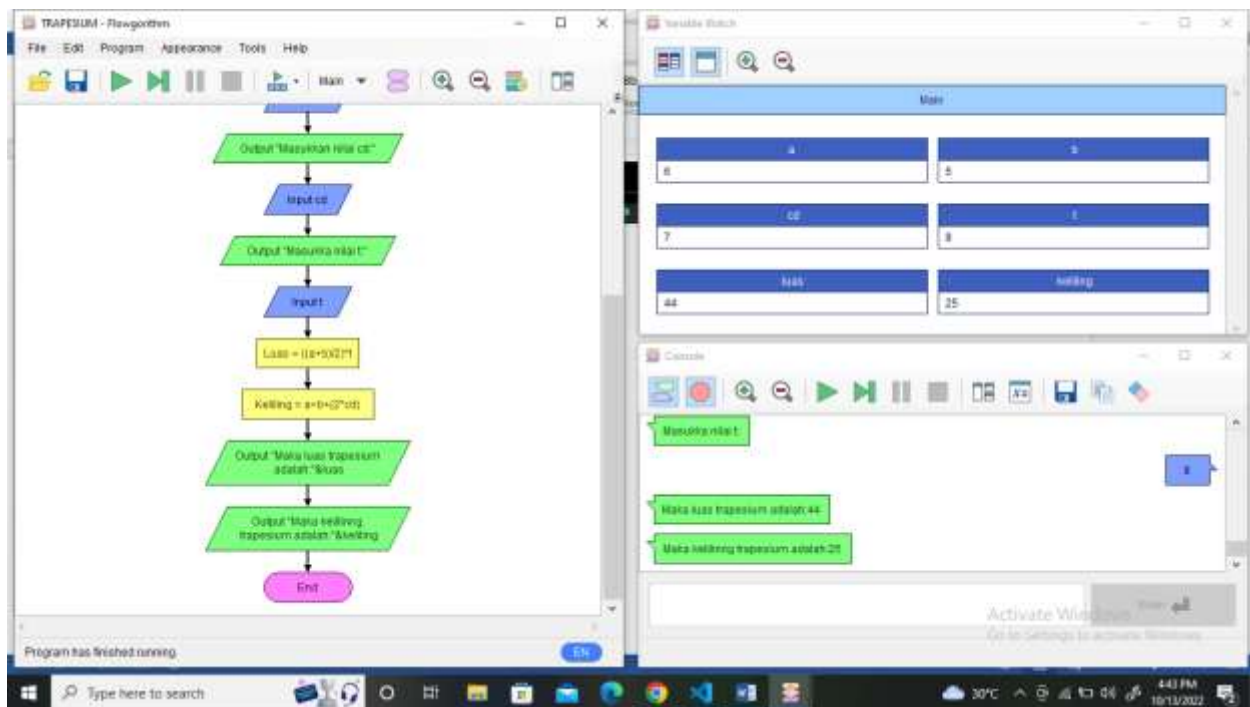
Masukkan nilai d2:
Maka luas Layang-layang adalah 27
  
```

```
1 print("Masukkan nilai a:")
2 a = int(input())
3 print("Masukkan nilai b:")
4 b = int(input())
5 keliling = 2 * a + 2 * b
6 print("Maka keliling Layang-layang adalah:" + str(keliling))
7 print("Masukkan nilai d1:")
8 d1 = int(input())
9 print("Masukkan nilai d2:")
10 d2 = int(input())
11 luas = float(1) / 2 * d1 * d2
12 print("Maka luas Layang-layang adalah:" + str(luas))
13
```

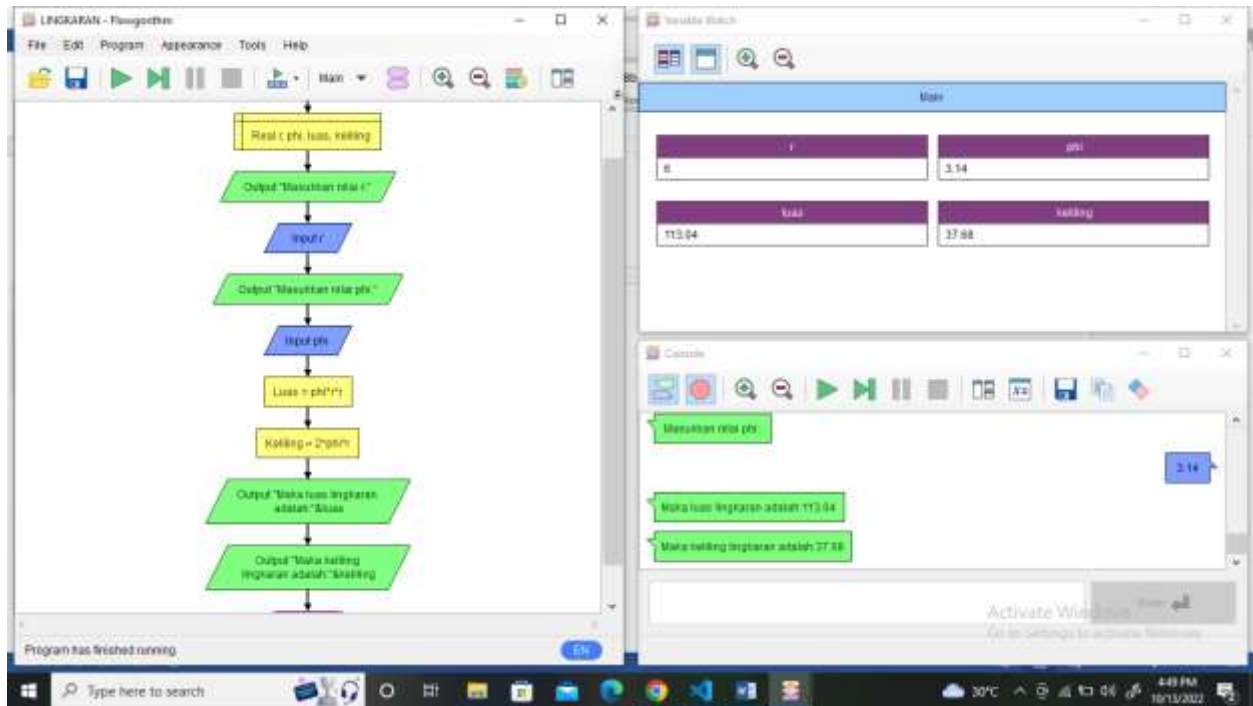
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell
<https://aka.ms/powershell>
PS C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python38\python.exe c:\Users\ASUS\Documents\layang.py
Masukkan nilai a:
7
Masukkan nilai b:
8
Maka keliling Layang-layang adalah:30
Masukkan nilai d1:
6
Masukkan nilai d2:
9
Maka luas Layang-layang adalah:27.0
PS C:\Users\ASUS>

7. TRAPESIUM





8. LINGKARAN



```
File Edit Selection View Go Run Terminal Help
Get Started luyanglayang.py trapezium.py lingkaran.py rosakarsati.py
C:\Users\ASUS\Documents> python3 lingkaran.py
1 print("Masukkan nilai r:")
2 r = float(input())
3 print("Masukkan nilai phi:")
4 phi = float(input())
5 luas = phi * phi * r
6 keliling = 2 * phi * r
7 print("Maka luas lingkaran adalah:" + str(luas))
8 print("Maka keliling lingkaran adalah:" + str(keliling))
9
```

Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell
<https://aka.ms/powershell>
PS C:\Users\ASUS> C:\Users\ASUS\AppData\Local\Programs\Python\Python38\python.exe c:\Users\ASUS\Documents\lingkaran.py
Masukkan nilai r:
6
Masukkan nilai phi:
3.14
Maka luas lingkaran adalah:113.04000000000001
Maka keliling lingkaran adalah:37.68
PS C:\Users\ASUS>