

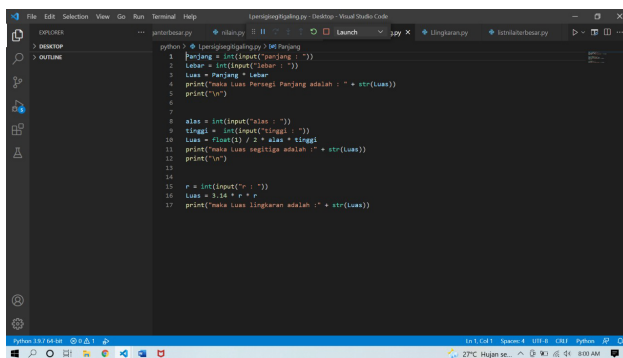
Nama : Hadijatol Kadri

Kelas : AI-A

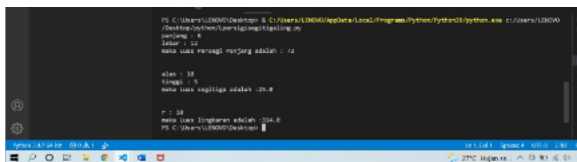
Nim : 20.01.013.006

UAS

1. Menghitung luas persegi panjang, segitiga, dan lingkaran.

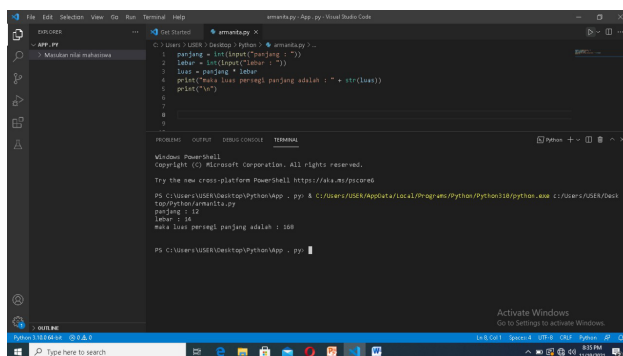


```
python > @ (persegipanjang.py) @Persegip  
1 panjang = int(input("panjang : "))  
2 lebar = int(input("lebar : "))  
3 luas = panjang * lebar  
4 print("luas Persegi Panjang adalah : " + str(luas))  
5  
6  
7  
8 alas = int(input("alas : "))  
9 tinggi = int(input("tinggi : "))  
10 luas = float(1/2 * alas * tinggi)  
11 print("luas segitiga adalah : " + str(luas))  
12  
13  
14  
15 r = int(input("r : "))  
16 luas = 3.14 * r * r  
17 print("luas Lingkaran adalah : " + str(luas))
```



```
PS C:\Users\hadri> cd C:\Users\hadri\AppData\Local\Programs\Python\Python38\python.exe C:\Users\hadri  
D:\hadri\python\persegipanjang.py  
panjang : 4  
lebar : 3  
luas persegi panjang adalah : 12  
  
alas : 3  
tinggi : 5  
luas segitiga adalah : 7.5  
  
r : 3  
luas lingkaran adalah : 28.26  
PS C:\Users\hadri>
```

2.A.persegi panjang



```
python > @ (persegipanjang.py) @Persegip  
1 panjang = int(input("panjang : "))  
2 lebar = int(input("lebar : "))  
3 luas = panjang * lebar  
4 print("luas persegi panjang adalah : " + str(luas))  
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```

B.segitiga

The screenshot displays a Windows 10 desktop environment. The primary application is Visual Studio Code, which is open to a Python file named `main.py` within a workspace called `amandapay`. The code in `main.py` is as follows:

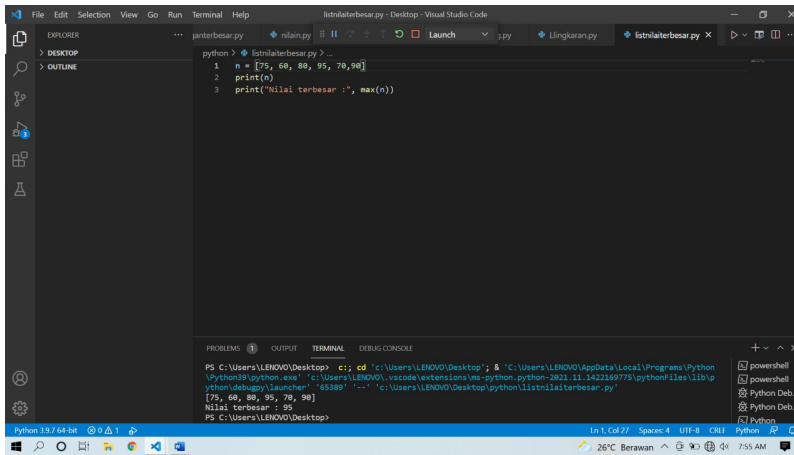
```
1 # coding=utf-8
2
3 # 打印hello world
4
5 if __name__ == '__main__':
6     print("Hello World!")
7
8
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```

The terminal window at the bottom of the editor shows the command `python main.py` being executed, and the output is `Hello World!`. The Windows taskbar at the bottom shows the Start button, several pinned applications (Edge, File Explorer, Chrome, VS Code, and a terminal), and the system tray with the date and time (8:41 PM, 8/24/2020).

C.lingkaran

The image shows a Windows 10 desktop environment. In the foreground, a Windows PowerShell terminal window is open, displaying the output of a Python script. The script, located at 'C:\Users\user\Desktop\Python\main.py', calculates the area of a circle with a radius of 2. The output is 'maia luas lingkarannya adalah 7.857142857142857'. In the background, a Visual Studio Code editor window is open, showing the source code of 'main.py' and the command prompt used to execute it: 'PS C:\Users\user\Desktop\Python> python main.py'. The Visual Studio Code interface includes a sidebar with file explorer, a search bar, and a command palette. The Windows taskbar at the bottom shows the Start button, several pinned applications, and the system tray with the date and time (10/3/2024, 10:41 AM).

3.menghitung luas segitiga

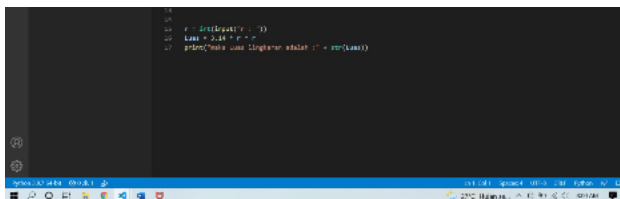


The screenshot shows the Visual Studio Code interface with a Python file named `istrialatertbesar.py` open. The code defines a list `n` with values `[75, 60, 80, 95, 70, 90]`, prints the list, and then prints the maximum value using `max(n)`. The terminal output shows the execution of the script, displaying the list and the maximum value `95`.

```
python > istrialatertbesar.py
1 n = [75, 60, 80, 95, 70, 90]
2 print(n)
3 print("Nilai terbesar :", max(n))

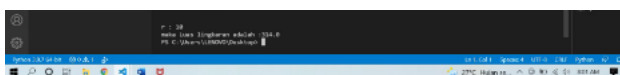
PS C:\Users\LENOVO\Desktop> cd "C:\Users\LENOVO\Desktop"; & "C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe" "C:\Users\LENOVO\Desktop\istrialatertbesar.py"
[75, 60, 80, 95, 70, 90]
Nilai terbesar : 95
PS C:\Users\LENOVO\Desktop>
```

4.input mencari nilai tertinggi



The screenshot shows a terminal window with a Python script that prompts the user to input a value `r`, calculates the area of a triangle using the formula `luas = 0.5 * r * r`, and prints the result. The user has entered `10`, and the output shows the calculated area.

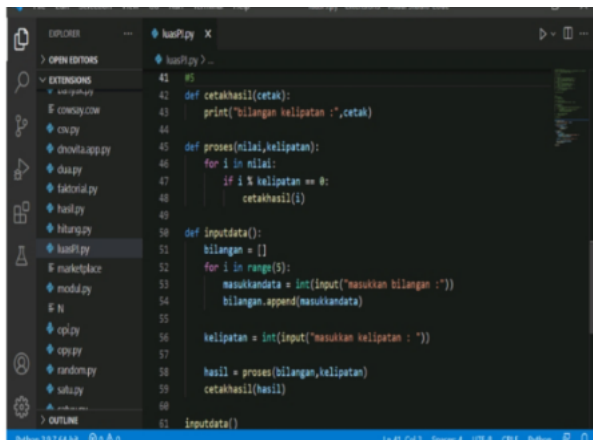
```
10
r = int(input("r : "))
luas = 0.5 * r * r
print("luas segitiga adalah : ", luas)
```



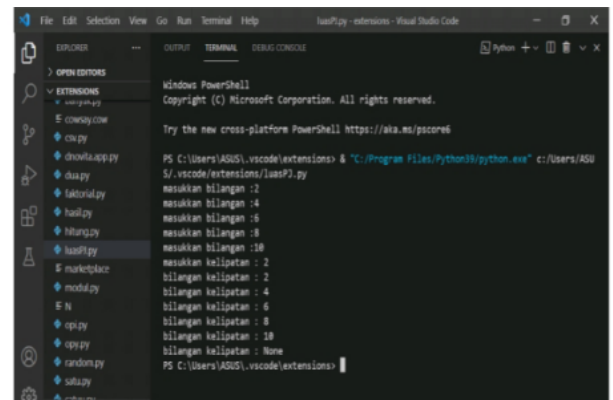
The screenshot shows the terminal output after running the script. The user input `10` is shown, followed by the calculation of the area, resulting in `50.0`.

```
r : 10
luas segitiga adalah : 50.0
PS C:\Users\LENOVO\Desktop>
```

5. Menampilkan kelipatan x



```
41 #
42 def cetakhasil(cetak):
43     print("bilangan kelipatan :",cetak)
44
45 def proses(nilai,kelipatan):
46     for i in nilai:
47         if i % kelipatan == 0:
48             cetakhasil(i)
49
50 def inputData():
51     bilangan = []
52     for i in range(5):
53         masukkandata = int(input("masukkan bilangan :"))
54         bilangan.append(masukkandata)
55
56     kelipatan = int(input("masukkan kelipatan : "))
57
58     hasil = proses(bilangan,kelipatan)
59     cetakhasil(hasil)
60
61 inputData()
```

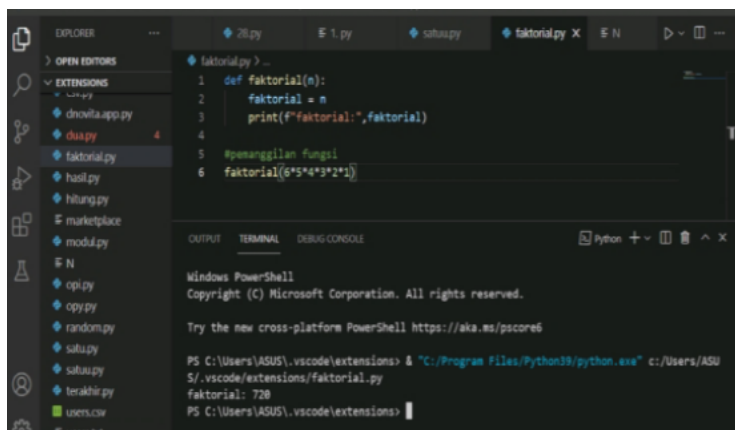


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

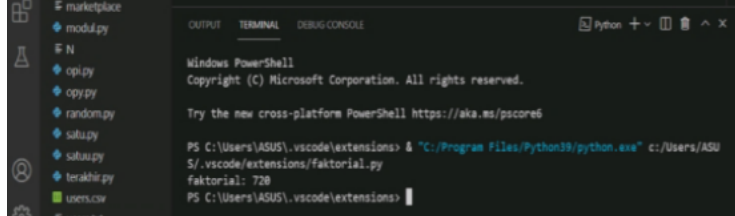
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python38/python.exe" c:/Users/ASU
S/.vscode/extensions/luasP.py
masukkan bilangan :2
masukkan bilangan :4
masukkan bilangan :6
masukkan bilangan :8
masukkan bilangan :10
masukkan kelipatan : 2
bilangan kelipatan : 2
bilangan kelipatan : 4
bilangan kelipatan : 6
bilangan kelipatan : 8
bilangan kelipatan : 10
bilangan kelipatan : None
PS C:\Users\ASUS\.vscode\extensions>
```

6. Program membuat faktorial suatu bilangan



```
1 def faktorial(n):
2     faktorial = n
3     print(f"faktorial:",faktorial)
4
5 #penanggilan fungsi
6 faktorial(6*5*4*3*2*1)
```



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

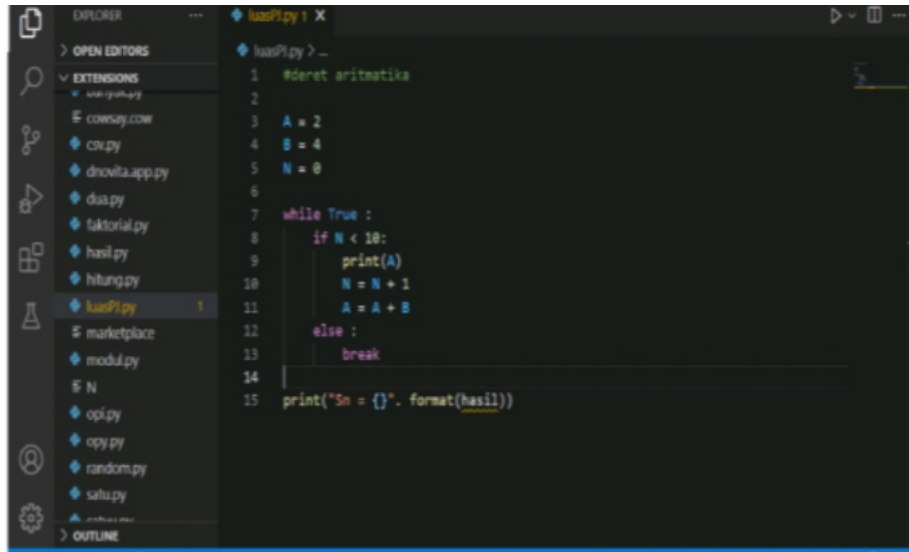
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python38/python.exe" c:/Users/ASU
S/.vscode/extensions/faktorial.py
faktorial: 720
PS C:\Users\ASUS\.vscode\extensions>
```

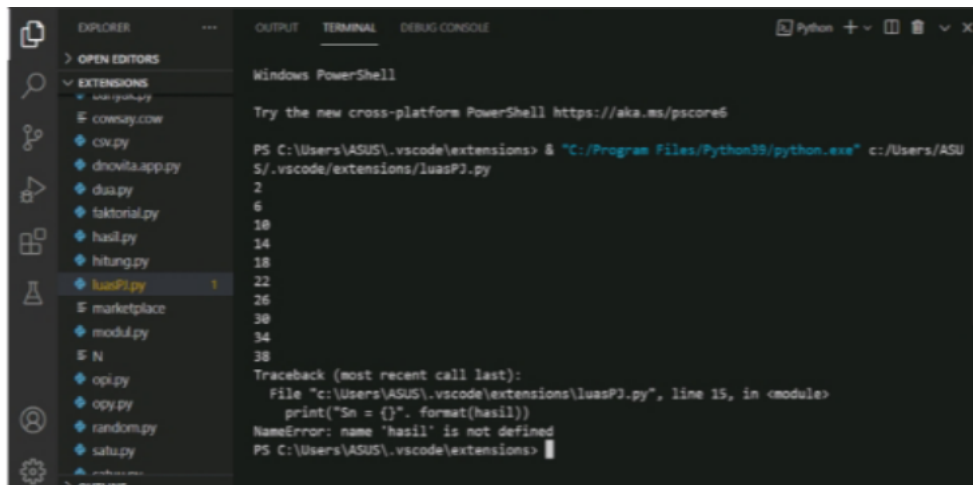
7. program menjumlahkan data

8. Program Menghitung akar persamaan

9. program deterministik



```
1 #deret aritmatika
2
3 A = 2
4 B = 4
5 N = 0
6
7 while True :
8     if N < 10:
9         print(A)
10        N = N + 1
11        A = A + B
12    else :
13        break
14
15 print("Sn = {}". format(hasil))
```



```
Windows PowerShell

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ASUS\.vscode\extensions> & "C:/Program Files/Python39/python.exe" c:/Users/ASU
S/.vscode/extensions/luasPJ.py
2
6
10
14
18
22
26
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34
38
Traceback (most recent call last):
  File "c:/Users/ASUS/.vscode/extensions/luasPJ.py", line 15, in <module>
    print("Sn = {}". format(hasil))
NameError: name 'hasil' is not defined
PS C:\Users\ASUS\.vscode\extensions>
```