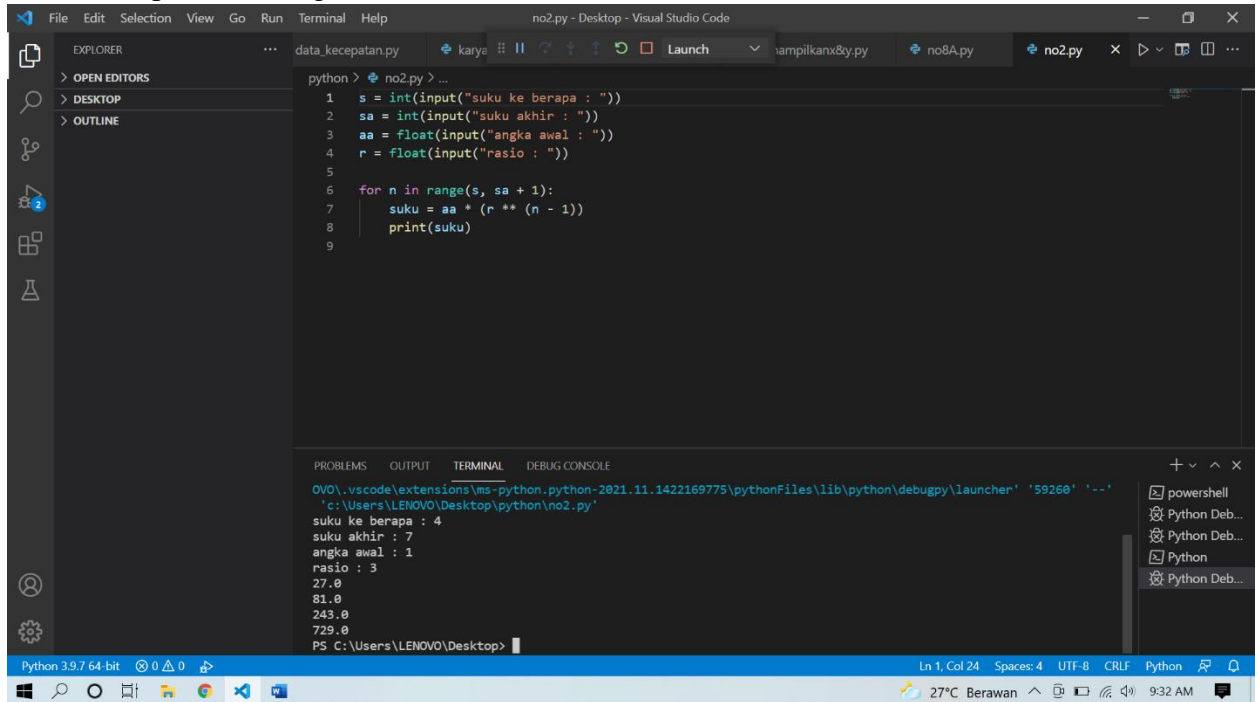


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Pyhton 3

## 2. Menampilkan deret geometri



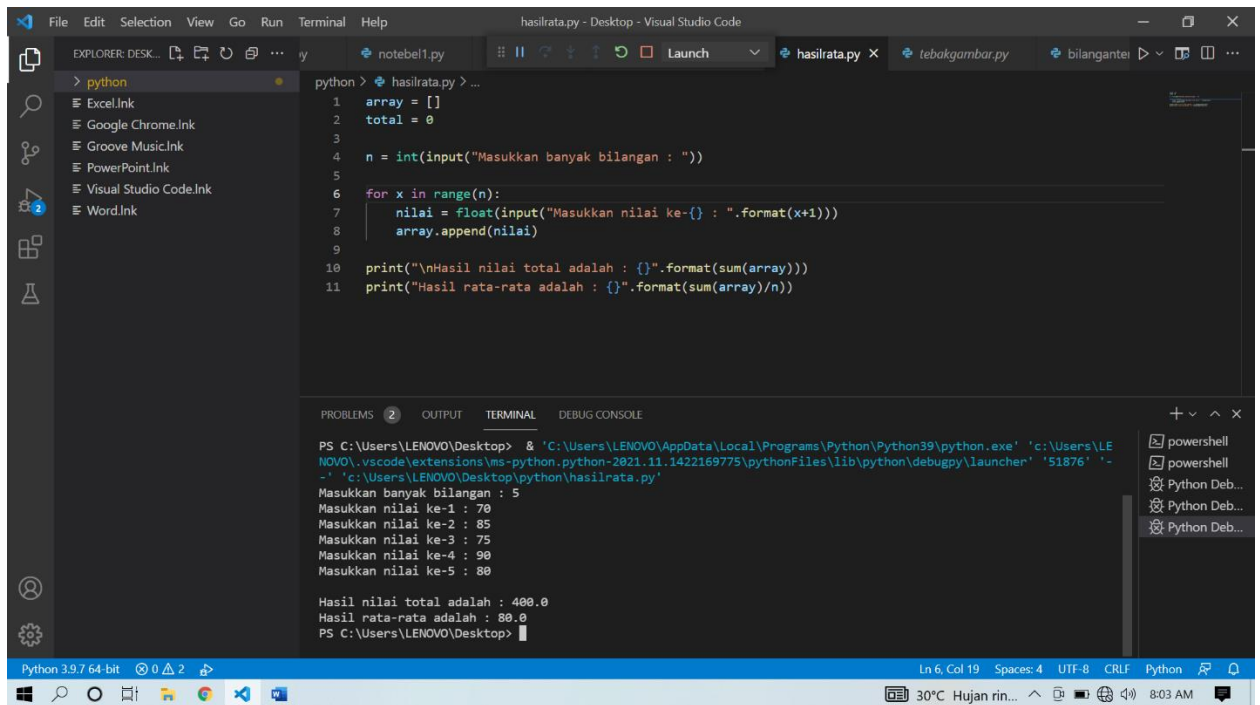
The screenshot shows the Visual Studio Code interface with a Python file named `no2.py` open. The code calculates a geometric series based on user input for the number of terms (`s`), the final term (`sa`), the first term (`aa`), and the common ratio (`r`). The output in the terminal shows the calculated terms of the series.

```
python> no2.py > ...
1 s = int(input("suku ke berapa : "))
2 sa = int(input("suku akhir : "))
3 aa = float(input("angka awal : "))
4 r = float(input("rasio : "))
5
6 for n in range(s, sa + 1):
7     suku = aa * (r ** (n - 1))
8     print(suku)
9
```

Terminal Output:

```
OVO\..vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '59260' '--'
'c:\Users\LENOVO\Desktop\python\no2.py'
suku ke berapa : 4
suku akhir : 7
angka awal : 1
rasio : 3
27.0
81.0
243.0
729.0
PS C:\Users\LENOVO\Desktop>
```

## 3. Menginput sejumlah N dan total beserta rata-rata



```
File Edit Selection View Go Run Terminal Help
hasilrata.py - Desktop - Visual Studio Code

EXPLORER: DESK...
python
Excel.Ink
Google Chrome.Ink
Groove Music.Ink
PowerPoint.Ink
Visual Studio Code.Ink
Word.Ink

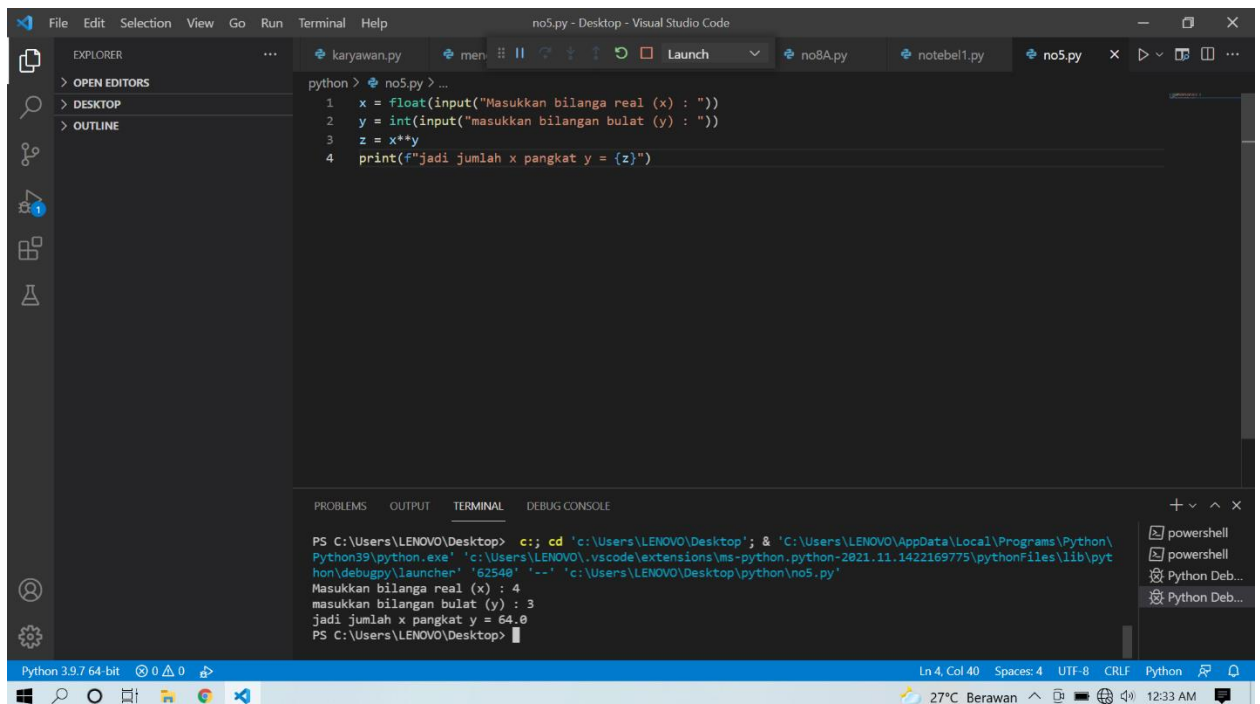
python > hasilrata.py > ...
1 array = []
2 total = 0
3
4 n = int(input("Masukkan banyak bilangan : "))
5
6 for x in range(n):
7     nilai = float(input("Masukkan nilai ke-{} : ".format(x+1)))
8     array.append(nilai)
9
10 print("\nHasil nilai total adalah : {}".format(sum(array)))
11 print("Hasil rata-rata adalah : {}".format(sum(array)/n))

PROBLEMS 2 OUTPUT TERMINAL DEBUG CONSOLE

PS C:\Users\LENOVO\Desktop> & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '51876' '-'
-' 'c:\Users\LENOVO\Desktop\python\hasilrata.py'
Masukkan banyak bilangan : 5
Masukkan nilai ke-1 : 70
Masukkan nilai ke-2 : 85
Masukkan nilai ke-3 : 75
Masukkan nilai ke-4 : 90
Masukkan nilai ke-5 : 80

Hasil nilai total adalah : 400.0
Hasil rata-rata adalah : 80.0
PS C:\Users\LENOVO\Desktop>
```

#### 4. Program menghitung nilai x real



```
File Edit Selection View Go Run Terminal Help
no5.py - Desktop - Visual Studio Code

EXPLORER
> OPEN EDITORS
> DESKTOP
> OUTLINE

karyawan.py men no8A.py notebel1.py no5.py

python > no5.py > ...
1 x = float(input("Masukkan bilangan real (x) : "))
2 y = int(input("masukkan bilangan bulat (y) : "))
3 z = x**y
4 print(f"jadi jumlah x pangkat y = {z}")

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

PS C:\Users\LENOVO\Desktop> c::; cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '62540' '--' 'c:\Users\LENOVO\Desktop\python\no5.py'
Masukkan bilangan real (x) : 4
masukkan bilangan bulat (y) : 3
jadi jumlah x pangkat y = 64.0
PS C:\Users\LENOVO\Desktop>
```

#### 5. Buatlah program menghitung N

The screenshot shows the Visual Studio Code interface with a Python file named `no5nilain.py` open. The code is a simple factorial calculator. The terminal shows the command to run the script and the output for `n=4`.

```
python > no5nilain.py > ...
1 n = int(input("Masukkan nilai n: "))
2 faktorial = 1
3
4 for i in range(1, n + 1):
5     faktorial *= i
6
7 print(f'{n}! = {faktorial}')
```

```
PS C:\Users\LENOVO\Desktop> c:; cd 'c:\Users\LENOVO\Desktop'; & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '51885' '--' 'c:\Users\LENOVO\Desktop\python\no5nilain.py'
Masukkan nilai n: 4
4! = 24
PS C:\Users\LENOVO\Desktop>
```

## 6. Menampilkan program tebak angka

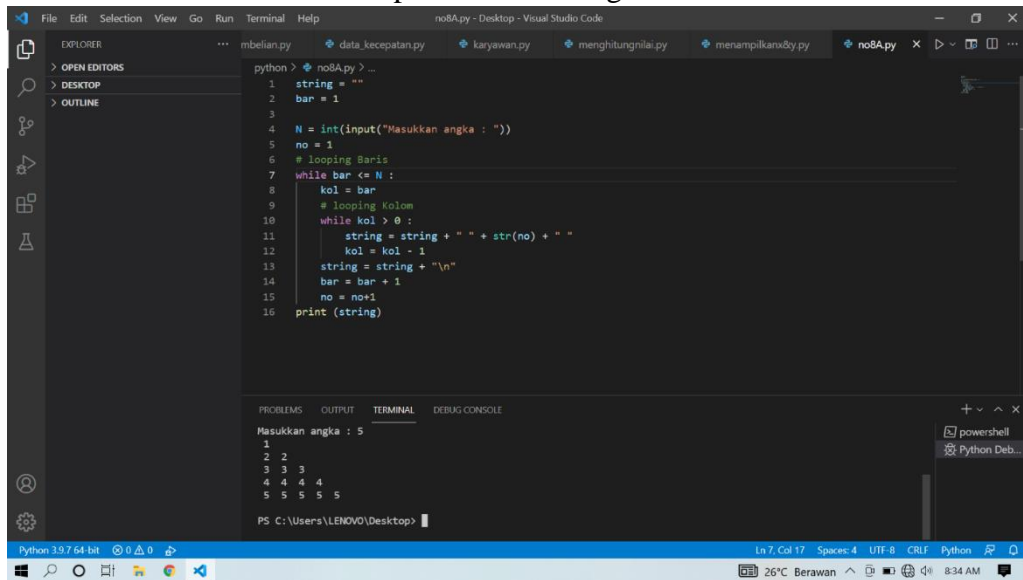
The screenshot shows the Visual Studio Code interface with a Python file named `tebakgambar.py` open. The code is a number guessing game. The terminal shows the command to run the script and the output for a guess of 10.

```
python > tebakgambar.py > ...
1 nilai = int(input("jumlah nilai : "))
2 y = []
3 for n in range(1, nilai + 1):
4     p = int(input(f"Nilai {n} : "))
5     y.append(p)
6 print(f"Total : {sum(y)}")
7 print(f"Rata-rata : {sum(y)/nilai}")
```

```
PS C:\Users\LENOVO\Desktop> & 'C:\Users\LENOVO\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '62573' '--' 'c:\Users\LENOVO\Desktop\python\tebakgambar.py'
jumlah nilai : 10
Nilai 1 : 1
Nilai 2 : 2
Nilai 3 : 3
Nilai 4 : 4
Nilai 5 : 5
Nilai 6 : 6
Nilai 7 : 7
Nilai 8 : 8
Nilai 9 : 9
Nilai 10 : 10
Total : 55
Rata-rata : 5.5
PS C:\Users\LENOVO\Desktop>
```

## 8. Program menampilkan dan menjumlahkan semua bilangan

B. Untuk masukkan N=5 tampilan susunan angka berikut :



```
python > no8A.py > ...
1 string = ""
2 bar = 1
3
4 N = int(input("Masukkan angka : "))
5 no = 1
6 # looping Baris
7 while bar <= N :
8     kol = bar
9     # looping Kolom
10    while kol > 0 :
11        string = string + " " + str(no) + " "
12        kol = kol - 1
13    string = string + "\n"
14    bar = bar + 1
15    no = no + 1
16 print (string)
```

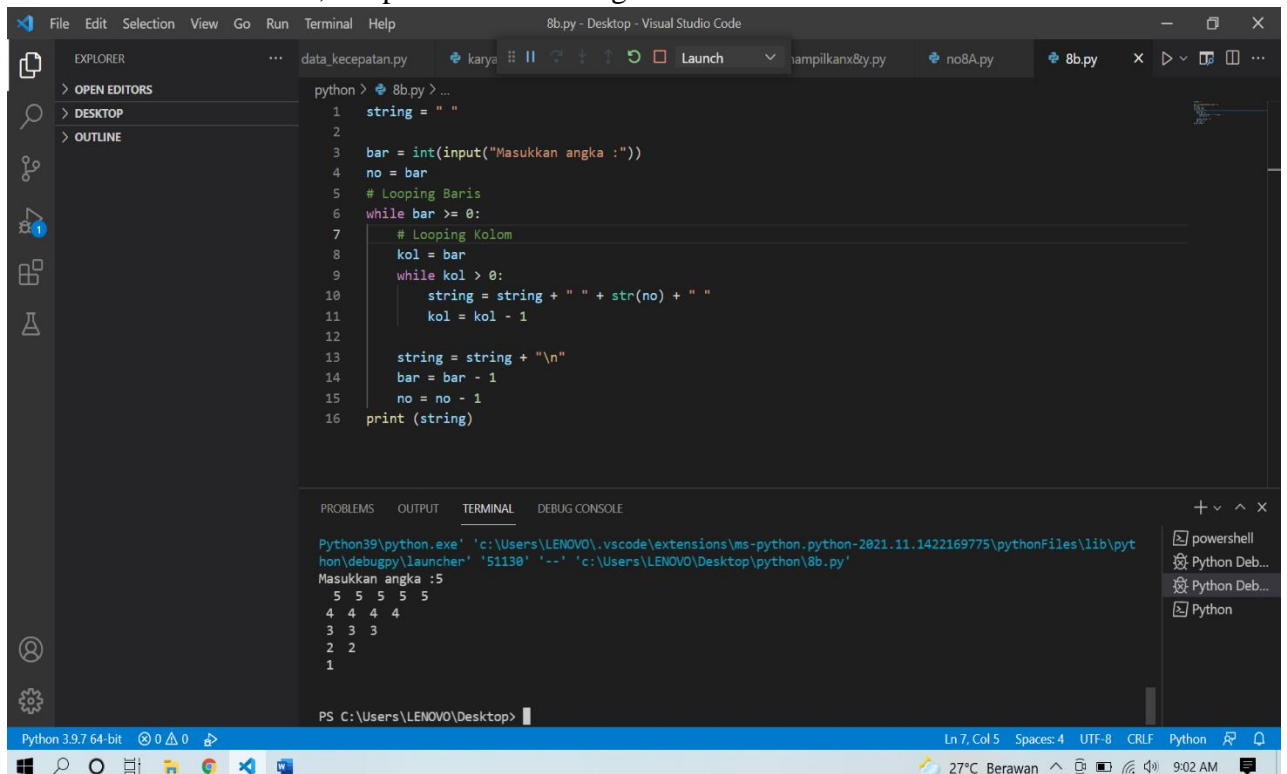
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Masukkan angka : 5

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

PS C:\Users\LENOVO\Desktop>

c. Untuk masukan N= 5, tampilkan susunan angka berikut



```
python > 8b.py > ...
1 string = ""
2
3 bar = int(input("Masukkan angka :"))
4 no = bar
5 # Looping Baris
6 while bar >= 0:
7     # Looping Kolom
8     kol = bar
9     while kol > 0:
10        string = string + " " + str(no) + " "
11        kol = kol - 1
12
13    string = string + "\n"
14    bar = bar - 1
15    no = no - 1
16 print (string)
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

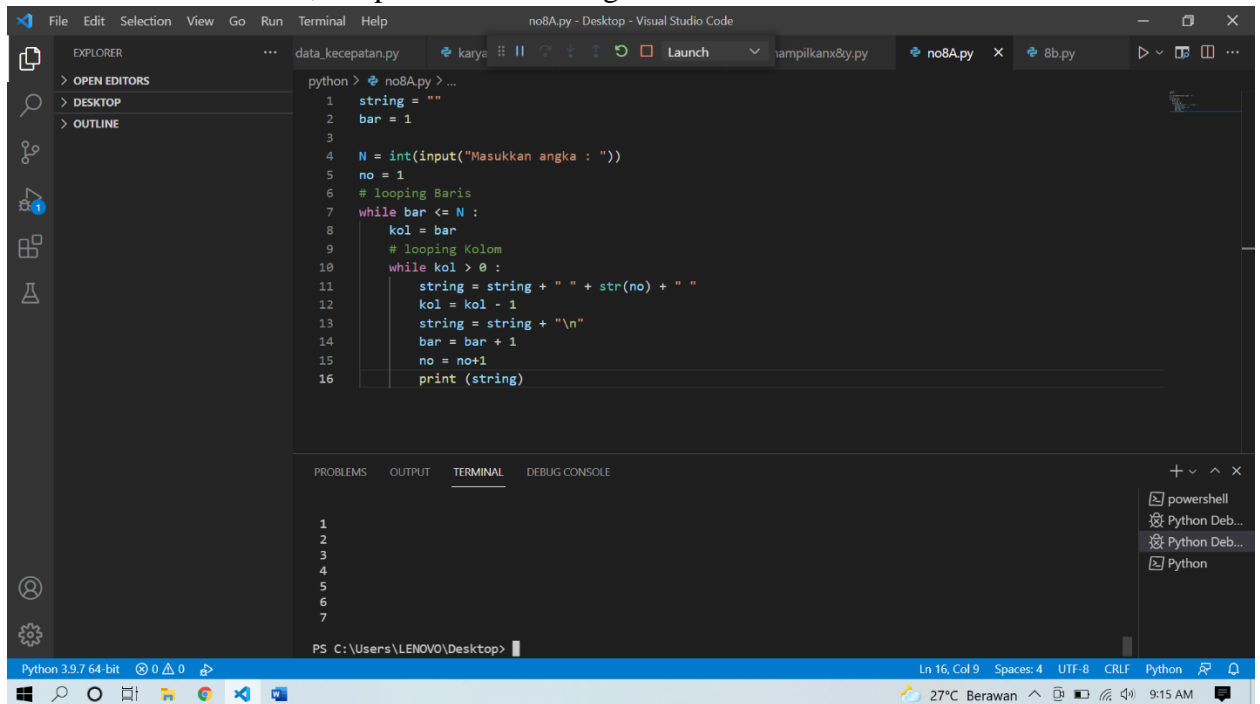
Python39\python.exe 'c:\Users\LENOVO\.vscode\extensions\ms-python.python-2021.11.1422169775\pythonFiles\lib\python\debugpy\launcher' '51130' '--' 'c:\Users\LENOVO\Desktop\python\8b.py'

Masukkan angka :5

```
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```

PS C:\Users\LENOVO\Desktop>

E. Untuk masukan N= 4, tampilkan susunan angka berikut



The screenshot shows the Visual Studio Code interface with a Python file named `no8A.py` open. The code is a Python script that takes an input `N` and prints a pattern of numbers. The pattern consists of `N` rows, where each row contains a sequence of numbers from 1 to `N`, followed by a newline character. The output in the terminal shows the pattern for `N=4`.

```
python > no8A.py > ...
1 string = ""
2 bar = 1
3
4 N = int(input("Masukkan angka : "))
5 no = 1
6 # looping Baris
7 while bar <= N :
8     kol = bar
9     # looping Kolom
10    while kol > 0 :
11        string = string + " " + str(no) + " "
12        kol = kol - 1
13        string = string + "\n"
14        bar = bar + 1
15        no = no+1
16    print (string)
```

The terminal output shows the pattern for `N=4`:

```
1
2
3
4
```

The status bar at the bottom indicates the file is `no8A.py` at line 16, column 9, with a UTF-8 encoding and CRLF line endings. The system tray shows the temperature as 27°C and the time as 9:15 AM.