

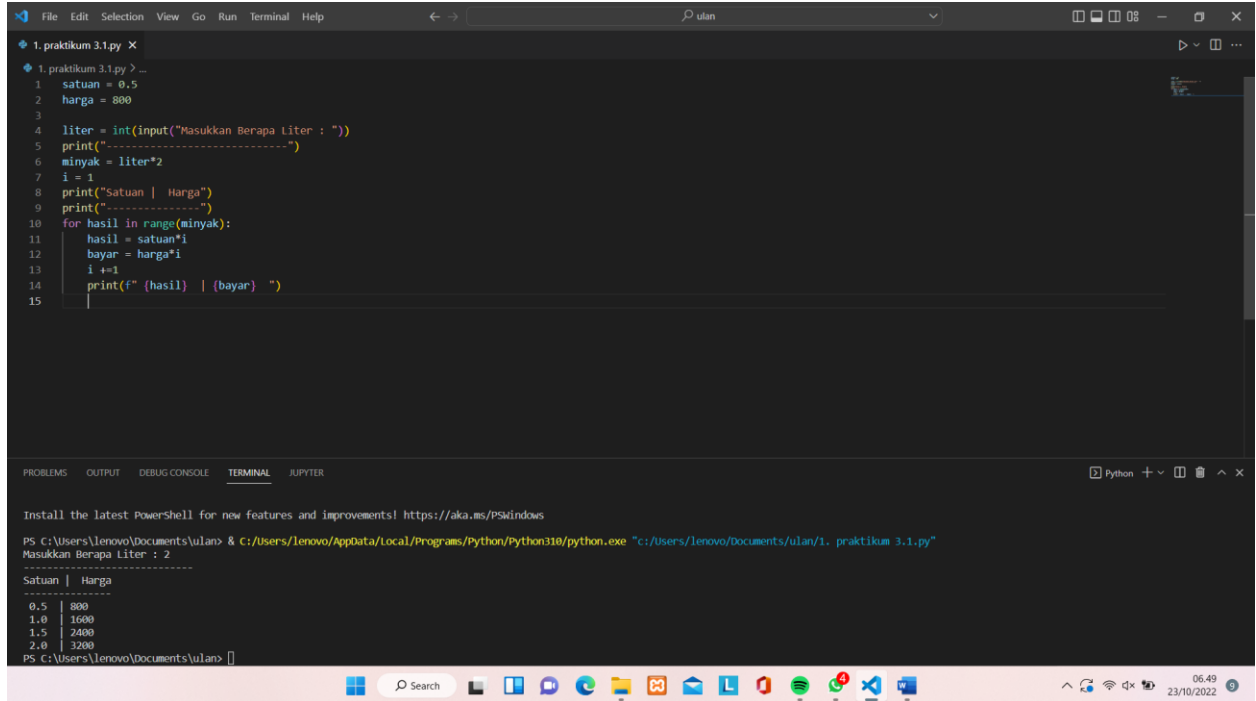
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Kelas : D

Praktikum III

1. Praktikum 3.1



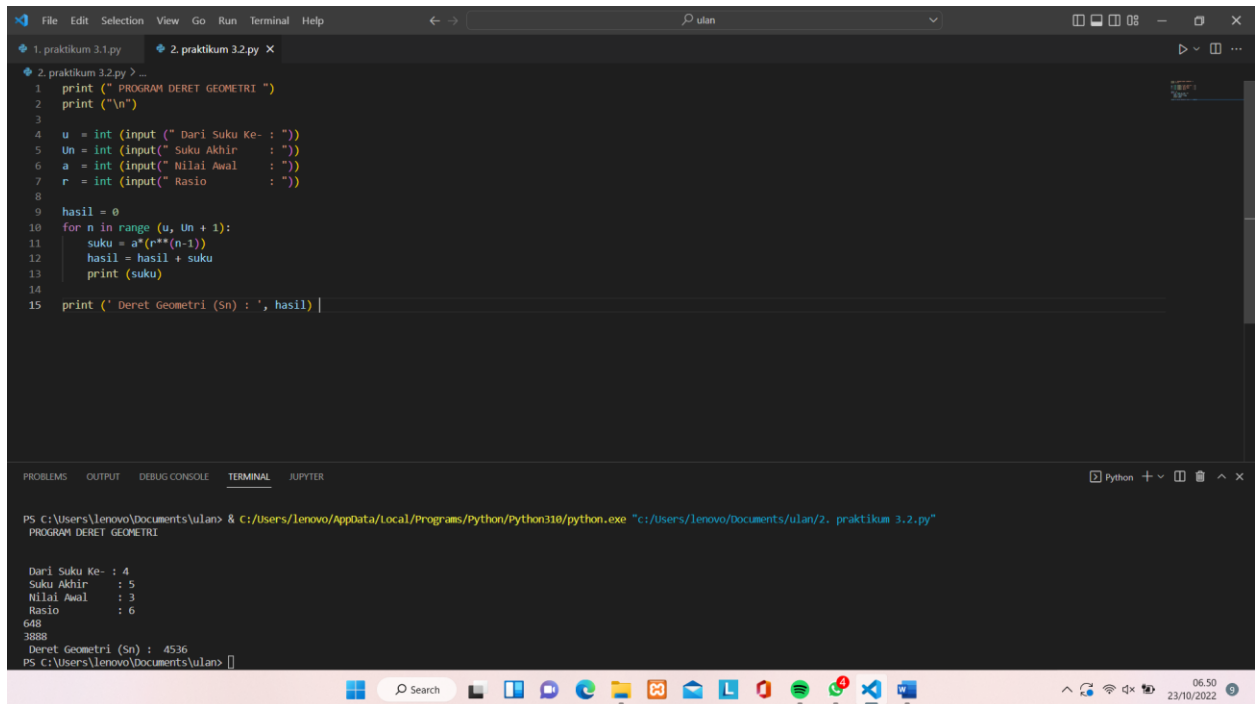
The screenshot shows a Python IDE with a file named '1.praktikum 3.1.py'. The script calculates the total cost of fuel based on the number of liters and a unit price. It uses a loop to calculate the total cost for different liter values.

```
1. praktikum 3.1.py X
1. praktikum 3.1.py > ...
1 satuan = 0.5
2 harga = 800
3
4 liter = int(input("Masukkan Berapa Liter : "))
5 print("-----")
6 minyak = liter*2
7 i = 1
8 print("Satuan | Harga")
9 print("-----")
10 for hasil in range(minyak):
11     hasil = satuan*i
12     bayar = harga*i
13     i += 1
14     print(f" {hasil} | {bayar} ")
15
```

The terminal output shows the execution of the script. It prompts the user to enter the number of liters, which is 2. The output displays a table of fuel costs for 0.5, 1.0, 1.5, and 2.0 liters.

```
PS C:\Users\lenovo\Documents\ulan> & C:/Users/lenovo/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/lenovo/Documents/ulan/1. praktikum 3.1.py"
Masukkan Berapa Liter : 2
-----
Satuan | Harga
-----
0.5 | 800
1.0 | 1600
1.5 | 2400
2.0 | 3200
PS C:\Users\lenovo\Documents\ulan>
```

2. Praktikum 3.2



The screenshot shows a VS Code editor with a file named `2.praktikum 3.2.py`. The code is a Python script that calculates the sum of a geometric series. It prompts the user for the first term (`u`), the last term (`Un`), the initial value (`a`), and the ratio (`r`). It then uses a loop to calculate the sum of the series from `u` to `Un` and prints the result.

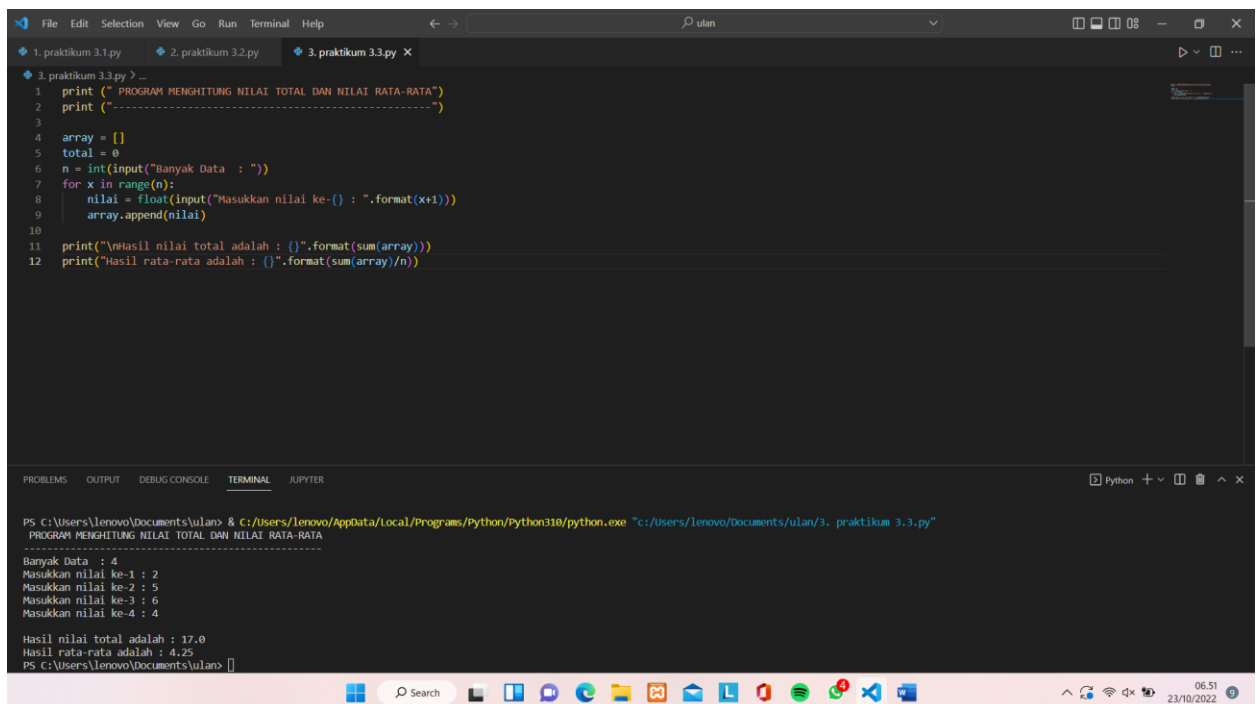
```
1 print (" PROGRAM DERET GEOMETRI ")
2 print ("\n")
3
4 u = int (input (" Dari Suku Ke- : "))
5 Un = int (input (" Suku Akhir : "))
6 a = int (input (" Nilai Awal : "))
7 r = int (input (" Rasio : "))
8
9 hasil = 0
10 for n in range (u, Un + 1):
11     suku = a*(r**(n-1))
12     hasil = hasil + suku
13     print (suku)
14
15 print (' Deret Geometri (Sn) : ', hasil) |
```

The terminal output shows the execution of the script with the following inputs and outputs:

```
PS C:\Users\lenovo\Documents\ulan> & c:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\lenovo\Documents\ulan\2. praktikum 3.2.py"
PROGRAM DERET GEOMETRI

Dari Suku Ke- : 4
Suku Akhir : 5
Nilai Awal : 3
Rasio : 6
648
3888
Deret Geometri (Sn) : 4536
PS C:\Users\lenovo\Documents\ulan> |
```

3. Praktikum 3.3



The screenshot shows a VS Code editor with a file named `3.praktikum 3.3.py`. The code is a Python script that calculates the sum and average of a list of numbers. It prompts the user for the number of data points (`n`) and then prompts the user to enter each data point. It then calculates the sum and average and prints the results.

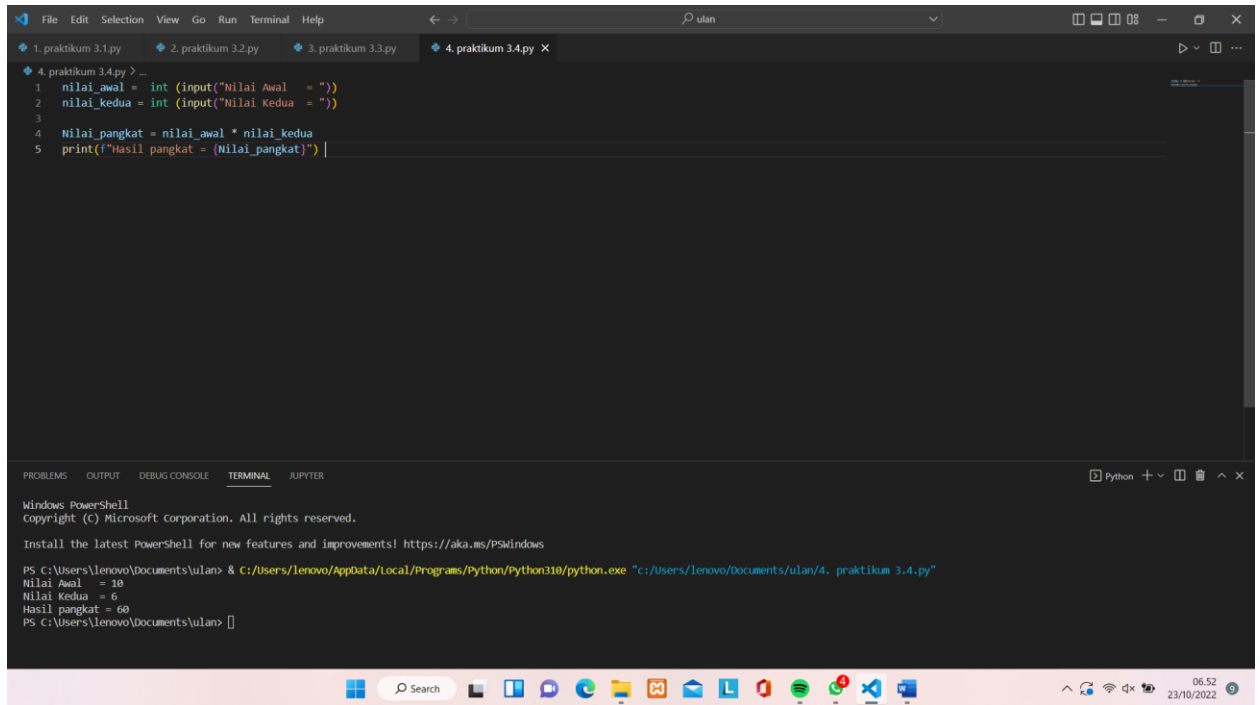
```
1 print (" PROGRAM MENGHITUNG NILAI TOTAL DAN NILAI RATA-RATA")
2 print ("-----")
3
4 array = []
5 total = 0
6 n = int(input("Banyak Data : "))
7 for x in range(n):
8     nilai = float(input("Masukkan nilai ke-{} : ".format(x+1)))
9     array.append(nilai)
10
11 print("\nHasil nilai total adalah : {}".format(sum(array)))
12 print("Hasil rata-rata adalah : {}".format(sum(array)/n))
```

The terminal output shows the execution of the script with the following inputs and outputs:

```
PS C:\Users\lenovo\Documents\ulan> & c:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "c:\Users\lenovo\Documents\ulan\3. praktikum 3.3.py"
PROGRAM MENGHITUNG NILAI TOTAL DAN NILAI RATA-RATA
-----
Banyak Data : 4
Masukkan nilai ke-1 : 2
Masukkan nilai ke-2 : 5
Masukkan nilai ke-3 : 6
Masukkan nilai ke-4 : 4

Hasil nilai total adalah : 17.0
Hasil rata-rata adalah : 4.25
PS C:\Users\lenovo\Documents\ulan> |
```

4. Praktikum 3.4



The screenshot shows a Visual Studio Code editor with a file explorer on the left containing four files: 1. praktikum 3.1.py, 2. praktikum 3.2.py, 3. praktikum 3.3.py, and 4. praktikum 3.4.py. The editor is open to 4. praktikum 3.4.py, which contains the following Python code:

```
1 nilai_awal = int(input("Nilai Awal = "))
2 nilai_kedua = int(input("Nilai Kedua = "))
3
4 nilai_pangkat = nilai_awal * nilai_kedua
5 print(f"Hasil pangkat = {nilai_pangkat}")
```

Below the editor is a terminal window titled "Terminal" with a Python icon. It shows the execution of the script in a Windows PowerShell environment. The output is as follows:

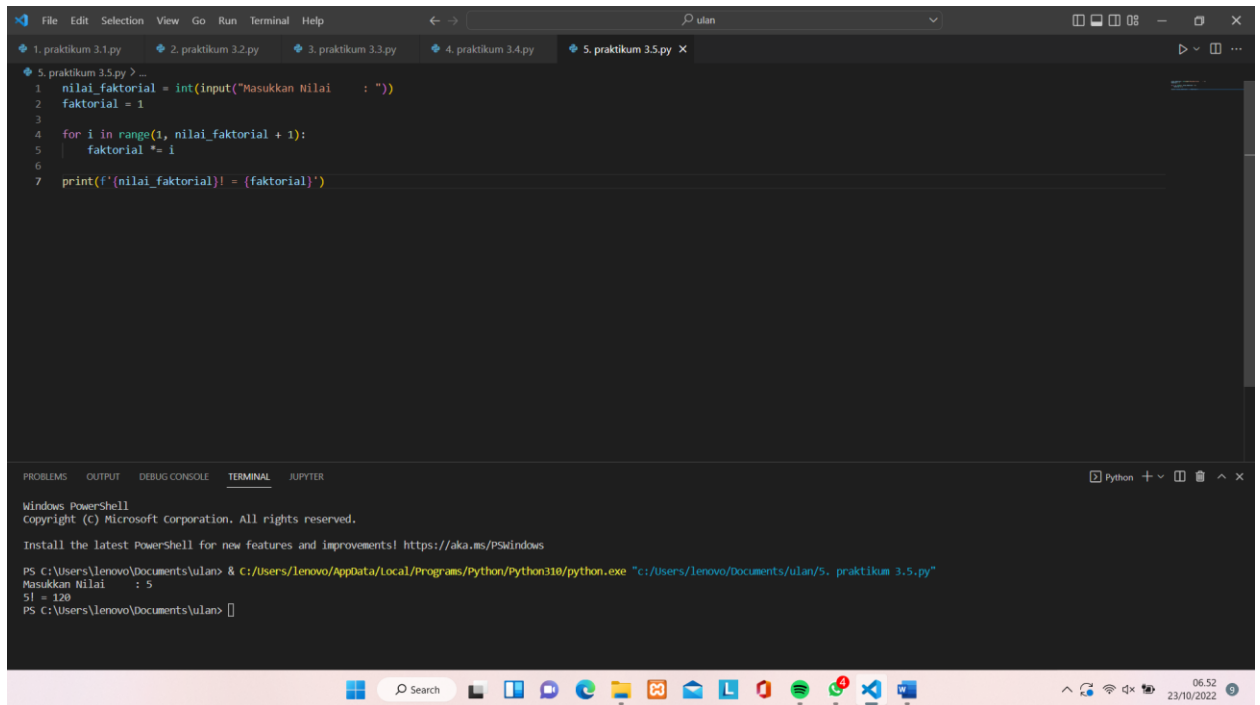
```
Windows PowerShell
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PS C:\Users\lenovo\Documents\ulan> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\lenovo\Documents\ulan\4. praktikum 3.4.py"
Nilai Awal = 10
Nilai Kedua = 6
Hasil pangkat = 60
PS C:\Users\lenovo\Documents\ulan>
```

The Windows taskbar at the bottom shows the system clock as 06:52 on 23/10/2022.

5. Praktikum 3.5



The screenshot shows a Visual Studio Code editor with a file explorer on the left containing five files: 1. praktikum 3.1.py, 2. praktikum 3.2.py, 3. praktikum 3.3.py, 4. praktikum 3.4.py, and 5. praktikum 3.5.py. The editor is open to 5. praktikum 3.5.py, which contains the following Python code:

```
1 nilai_faktorial = int(input("Masukkan Nilai : "))
2 faktorial = 1
3
4 for i in range(1, nilai_faktorial + 1):
5     faktorial *= i
6
7 print(f'{nilai_faktorial}! = {faktorial}')
```

Below the editor is a terminal window titled "Terminal" with a Python icon. It shows the execution of the script in a Windows PowerShell environment. The output is as follows:

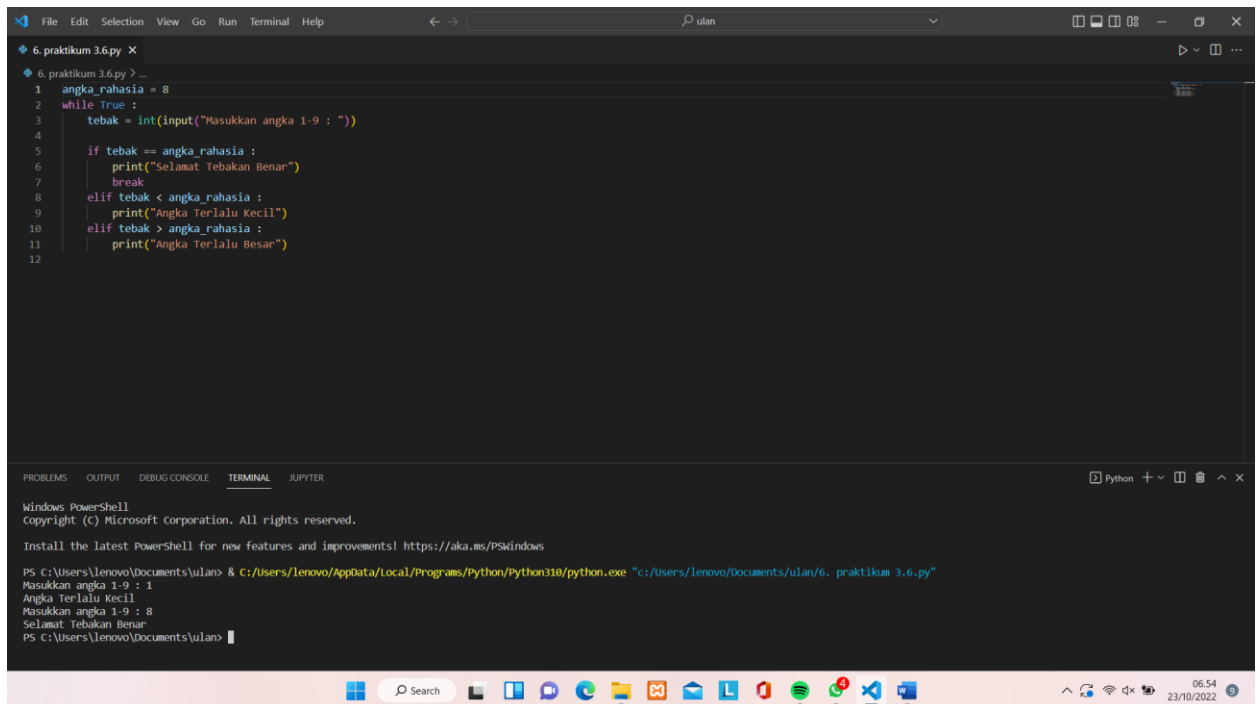
```
Windows PowerShell
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PS C:\Users\lenovo\Documents\ulan> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\lenovo\Documents\ulan\5. praktikum 3.5.py"
Masukkan Nilai : 5
5! = 120
PS C:\Users\lenovo\Documents\ulan>
```

The Windows taskbar at the bottom shows the system clock as 06:52 on 23/10/2022.

6. Praktikum 3.6



The screenshot shows a Jupyter Notebook interface with a file named '6. praktikum 3.6.py'. The code in the notebook is a Python script that generates a random number and asks the user to guess it. The script uses a while loop to keep asking for guesses until the user gets it right. The terminal output shows the execution of the script, where the user enters '1' and '8', and the program responds with 'Angka Terlalu Kecil' and 'Selamat Tebakkan Benar' respectively.

```
File Edit Selection View Go Run Terminal Help
6. praktikum 3.6.py X
1 angka_rahasia = 8
2 while True:
3     tebak = int(input("Masukkan angka 1-9 : "))
4
5     if tebak == angka_rahasia:
6         print("Selamat Tebakkan Benar")
7         break
8     elif tebak < angka_rahasia:
9         print("Angka Terlalu Kecil")
10    elif tebak > angka_rahasia:
11        print("Angka Terlalu Besar")
12

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Windows PowerShell
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PS C:\Users\lenovo\Documents\ulan> & C:\Users\lenovo\AppData\Local\Programs\Python\Python310\python.exe "C:\Users\lenovo\Documents\ulan\6. praktikum 3.6.py"
Masukkan angka 1-9 : 1
Angka Terlalu Kecil
Masukkan angka 1-9 : 8
Selamat Tebakkan Benar
PS C:\Users\lenovo\Documents\ulan>
```