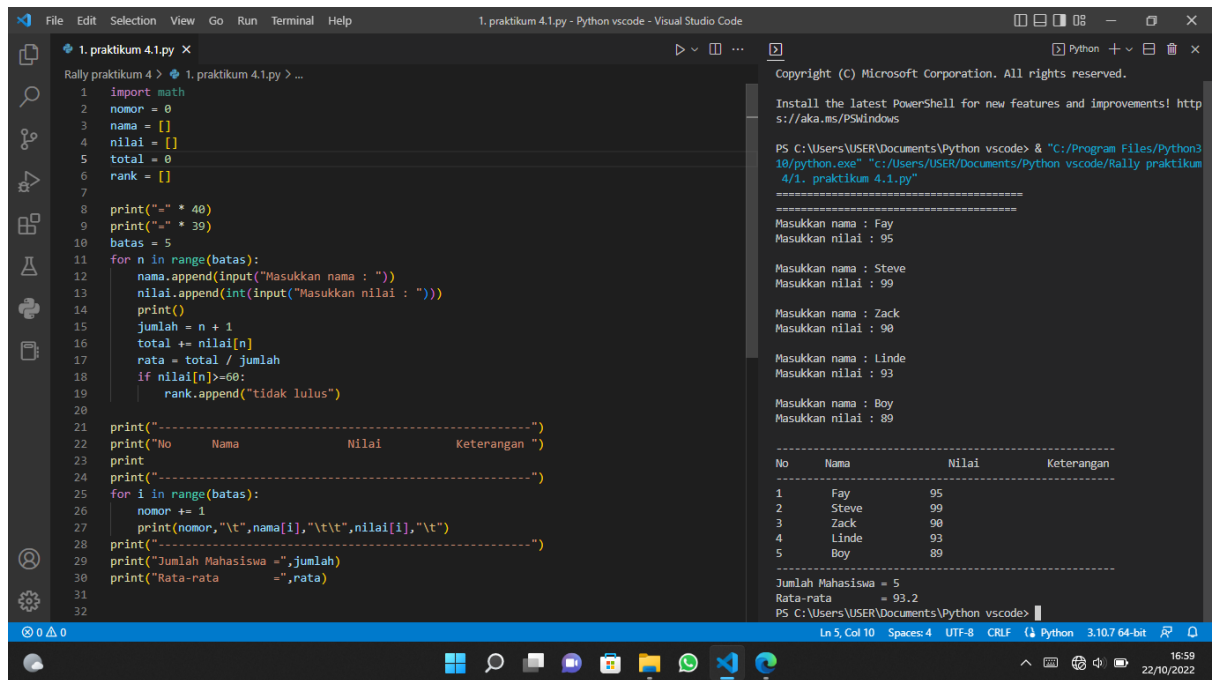


Nama : Rally Raymanda
Nim : 211001012
Kelas : D

➤ Praktikum 4

1. Praktikum 4.1



```
1 import math
2 nomor = 0
3 nama = []
4 nilai = []
5 total = 0
6 rank = []
7
8 print("=" * 40)
9 print("=" * 39)
10 batas = 5
11 for n in range(batas):
12     nama.append(input("Masukkan nama : "))
13     nilai.append(int(input("Masukkan nilai : ")))
14     print()
15     jumlah = n + 1
16     total += nilai[n]
17     rata = total / jumlah
18     if nilai[n] >= 60:
19         rank.append("tidak lulus")
20
21 print("-----")
22 print("No      Nama      Nilai      Keterangan ")
23 print("-----")
24 for i in range(batas):
25     nomor += 1
26     print(nomor, "\t", nama[i], "\t\t", nilai[i], "\t")
27 print("-----")
28 print("Jumlah Mahasiswa =", jumlah)
29 print("Rata-rata      =", rata)
30
31
32
```

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PS C:\Users\USER\Documents\Python vscode> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python vscode/Rally praktikum 4/1. praktikum 4.1.py"

Masukkan nama : Fay
Masukkan nilai : 95

Masukkan nama : Steve
Masukkan nilai : 99

Masukkan nama : Zack
Masukkan nilai : 90

Masukkan nama : Linde
Masukkan nilai : 93

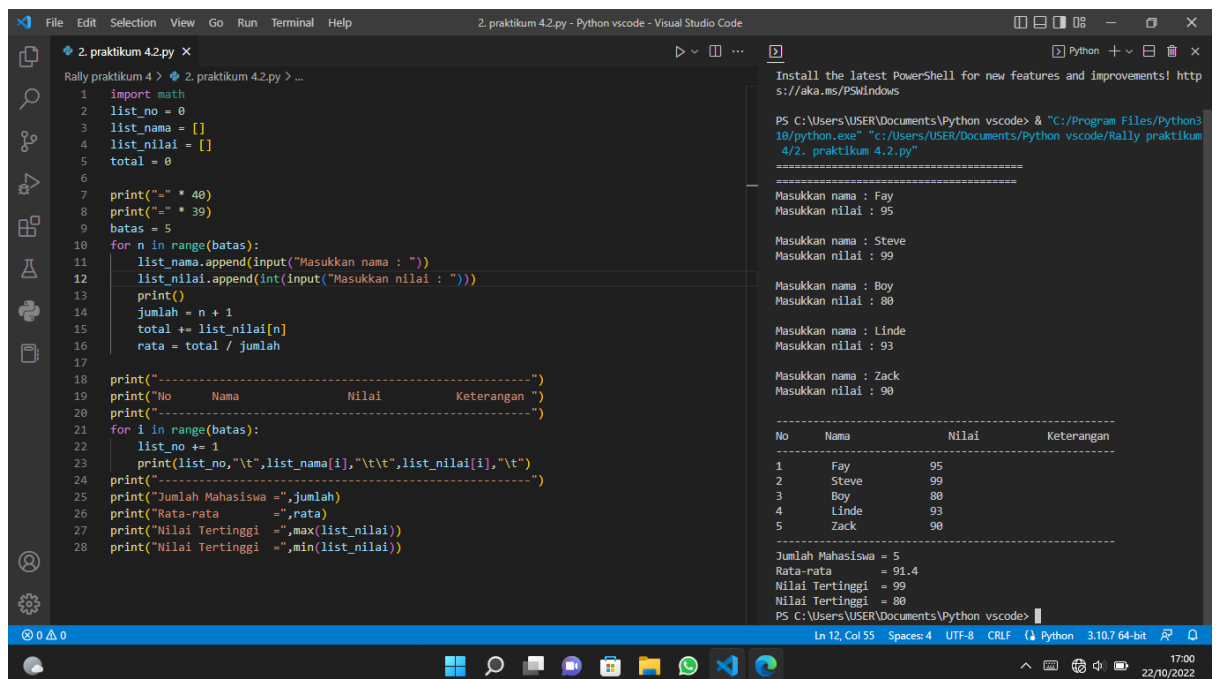
Masukkan nama : Boy
Masukkan nilai : 89

No	Nama	Nilai	Keterangan
1	Fay	95	
2	Steve	99	
3	Zack	90	
4	Linde	93	
5	Boy	89	

Jumlah Mahasiswa = 5
Rata-rata = 93.2

PS C:\Users\USER\Documents\Python vscode>

2. Praktikum 4.2



```
1 import math
2 list_no = 0
3 list_nama = []
4 list_nilai = []
5 total = 0
6
7 print("=" * 40)
8 print("=" * 39)
9 batas = 5
10 for n in range(batas):
11     list_nama.append(input("Masukkan nama : "))
12     list_nilai.append(int(input("Masukkan nilai : ")))
13     print()
14     jumlah = n + 1
15     total += list_nilai[n]
16     rata = total / jumlah
17
18 print("-----")
19 print("No      Nama      Nilai      Keterangan ")
20 print("-----")
21 for i in range(batas):
22     list_no += 1
23     print(list_no, "\t", list_nama[i], "\t\t", list_nilai[i], "\t")
24 print("-----")
25 print("Jumlah Mahasiswa =", jumlah)
26 print("Rata-rata      =", rata)
27 print("Nilai Tertinggi =", max(list_nilai))
28 print("Nilai Tertinggi =", min(list_nilai))

```

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PS C:\Users\USER\Documents\Python vscode> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python vscode/Rally praktikum 4/2. praktikum 4.2.py"

Masukkan nama : Fay
Masukkan nilai : 95

Masukkan nama : Steve
Masukkan nilai : 99

Masukkan nama : Boy
Masukkan nilai : 80

Masukkan nama : Linde
Masukkan nilai : 93

Masukkan nama : Zack
Masukkan nilai : 90

No	Nama	Nilai	Keterangan
1	Fay	95	
2	Steve	99	
3	Boy	80	
4	Linde	93	
5	Zack	90	

Jumlah Mahasiswa = 5
Rata-rata = 91.4
Nilai Tertinggi = 99
Nilai Tertinggi = 80

PS C:\Users\USER\Documents\Python vscode>

3. Praktikum 4.4

The screenshot shows the Visual Studio Code interface with a Python file named `3.praktikum 4.4.py` open. The code defines a list, takes user input for the number of elements, and prints the even numbers from the list. The output window shows the program's execution with the input 4 and the resulting list [2, 4, 6, 8], where the even numbers are 2, 4, 6, and 8.

```
1 print(" PROGRAM MENCAIRI BILANGAN GENAP ")
2 print("-----")
3
4 listo = []
5 n = int(input("Banyak Data : "))
6
7 print()
8 for i in range(n):
9     bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1 )))
10    listo.append(bil)
11
12 print()
13 print("List bilangan:", listo)
14 print("\nBilangan didalam list yang merupakan angka genap adalah: ")
15 for x in listo:
16     if x % 2 == 0:
17         print(x, end=' ')
18
```

Output:

```
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PS C:\Users\USER\Documents\Python vscode> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python vscode/Rally praktikum 4/3. praktikum 4.4.py"
PROGRAM MENCAIRI BILANGAN GENAP
-----
Banyak Data : 4

Masukkan bilangan ke-1 : 2
Masukkan bilangan ke-2 : 4
Masukkan bilangan ke-3 : 6
Masukkan bilangan ke-4 : 8

List bilangan: [2, 4, 6, 8]

Bilangan didalam list yang merupakan angka genap adalah:
2468
PS C:\Users\USER\Documents\Python vscode>
```

4. Praktikum 4.5

The screenshot shows the Visual Studio Code interface with a Python file named `4.praktikum 4.5.py` open. The code defines a list, takes user input for the number of elements, and prints the maximum value from the list. The output window shows the program's execution with the input 3 and the resulting list [8, 9, 6], where the maximum value is 9.

```
1 print(" PROGRAM MENCAIRI BILANGAN TERBESAR ")
2 print("-----")
3
4 listo = []
5 n = int(input("Banyak Data : "))
6
7 print()
8 for i in range(n):
9     bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1 )))
10    listo.append(bil)
11
12 print()
13 print("List bilangan :",listo)
14 print("\nBilangan didalam list yang merupakan angka terbesar adalah :")
15 print(max(listo))
```

Output:

```
Windows PowerShell
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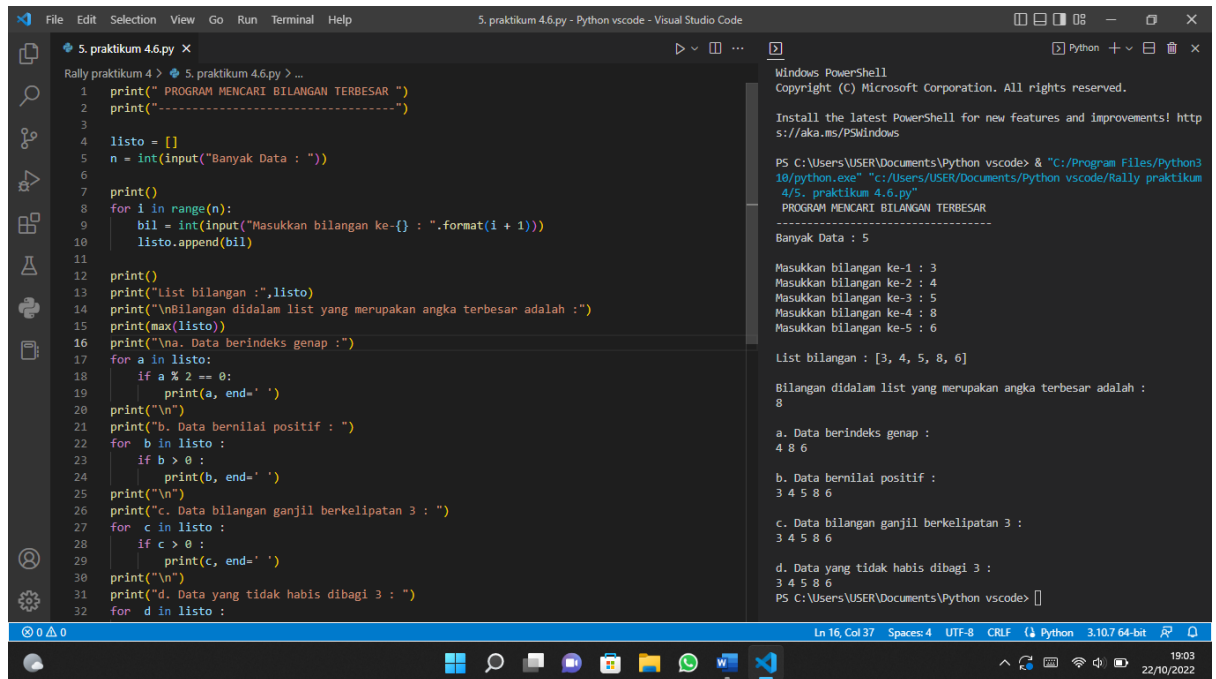
PS C:\Users\USER\Documents\Python vscode> & "C:/Program Files/Python310/python.exe" "c:/Users/USER/Documents/Python vscode/Rally praktikum 4/4. praktikum 4.5.py"
PROGRAM MENCAIRI BILANGAN TERBESAR
-----
Banyak Data : 3

Masukkan bilangan ke-1 : 8
Masukkan bilangan ke-2 : 9
Masukkan bilangan ke-3 : 6

List bilangan : [8, 9, 6]

Bilangan didalam list yang merupakan angka terbesar adalah :
9
PS C:\Users\USER\Documents\Python vscode>
```

5. Praktikum 4.6



```
File Edit Selection View Go Run Terminal Help 5. praktikum 4.6.py - Python vscod...
5. praktikum 4.6.py x
Rally praktikum 4 > 5. praktikum 4.6.py > ...
1 print(" PROGRAM MENCARI BILANGAN TERBESAR ")
2 print("-----")
3
4 listo = []
5 n = int(input("Banyak Data : "))
6
7 print()
8 for i in range(n):
9     bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1)))
10    listo.append(bil)
11
12 print()
13 print("list bilangan :",listo)
14 print("\nBilangan didalam list yang merupakan angka terbesar adalah :")
15 print(max(listo))
16 print("\na. Data berindeks genap :")
17 for a in listo:
18     if a % 2 == 0:
19         print(a, end=' ')
20 print("\n")
21 print("b. Data bernilai positif : ")
22 for b in listo :
23     if b > 0 :
24         print(b, end=' ')
25 print("\n")
26 print("c. Data bilangan ganjil berkelipatan 3 : ")
27 for c in listo :
28     if c > 0 :
29         print(c, end=' ')
30 print("\n")
31 print("d. Data yang tidak habis dibagi 3 : ")
32 for d in listo :
```

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PS C:\Users\USER\Documents\Python vscodex & "C:/Program Files/Python310/python.exe" "C:/Users/USER/Documents/Python vscodex/Rally praktikum 4/5. praktikum 4.6.py"

PROGRAM MENCARI BILANGAN TERBESAR

Banyak Data : 5

Masukkan bilangan ke-1 : 3
Masukkan bilangan ke-2 : 4
Masukkan bilangan ke-3 : 5
Masukkan bilangan ke-4 : 8
Masukkan bilangan ke-5 : 6

List bilangan : [3, 4, 5, 8, 6]

Bilangan didalam list yang merupakan angka terbesar adalah :
8

a. Data berindeks genap :
4 8 6

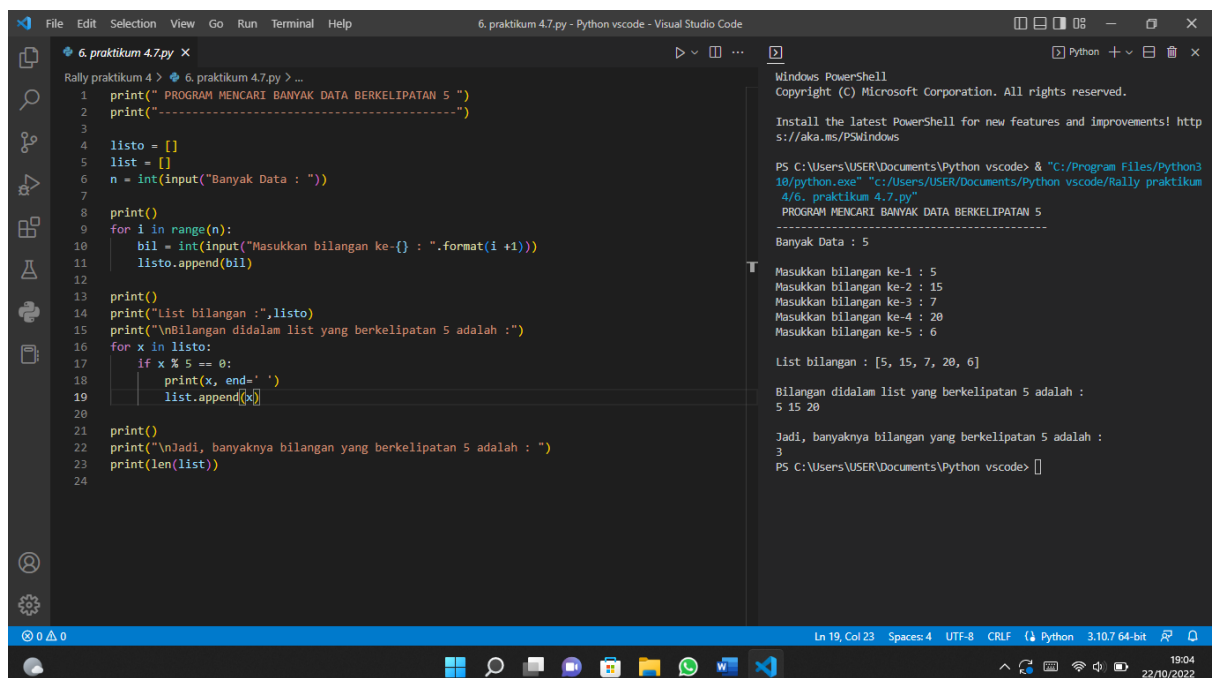
b. Data bernilai positif :
3 4 5 8 6

c. Data bilangan ganjil berkelipatan 3 :
3 4 5 8 6

d. Data yang tidak habis dibagi 3 :
3 4 5 8 6

PS C:\Users\USER\Documents\Python vscodex > |

6. Praktikum 4.7



```
File Edit Selection View Go Run Terminal Help 6. praktikum 4.7.py - Python vscod...
6. praktikum 4.7.py x
Rally praktikum 4 > 6. praktikum 4.7.py > ...
1 print(" PROGRAM MENCARI BANYAK DATA BERKELIPATAN 5 ")
2 print("-----")
3
4 listo = []
5 list = []
6 n = int(input("Banyak Data : "))
7
8 print()
9 for i in range(n):
10    bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1)))
11    listo.append(bil)
12
13 print()
14 print("list bilangan :",listo)
15 print("\nBilangan didalam list yang berkelipatan 5 adalah :")
16 for x in listo:
17     if x % 5 == 0:
18         print(x, end=' ')
19     list.append(x)
20
21 print()
22 print("\nJadi, banyaknya bilangan yang berkelipatan 5 adalah : ")
23 print(len(list))
24
```

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PS C:\Users\USER\Documents\Python vscodex & "C:/Program Files/Python310/python.exe" "C:/Users/USER/Documents/Python vscodex/Rally praktikum 4/6. praktikum 4.7.py"

PROGRAM MENCARI BANYAK DATA BERKELIPATAN 5

Banyak Data : 5

Masukkan bilangan ke-1 : 5
Masukkan bilangan ke-2 : 15
Masukkan bilangan ke-3 : 7
Masukkan bilangan ke-4 : 20
Masukkan bilangan ke-5 : 6

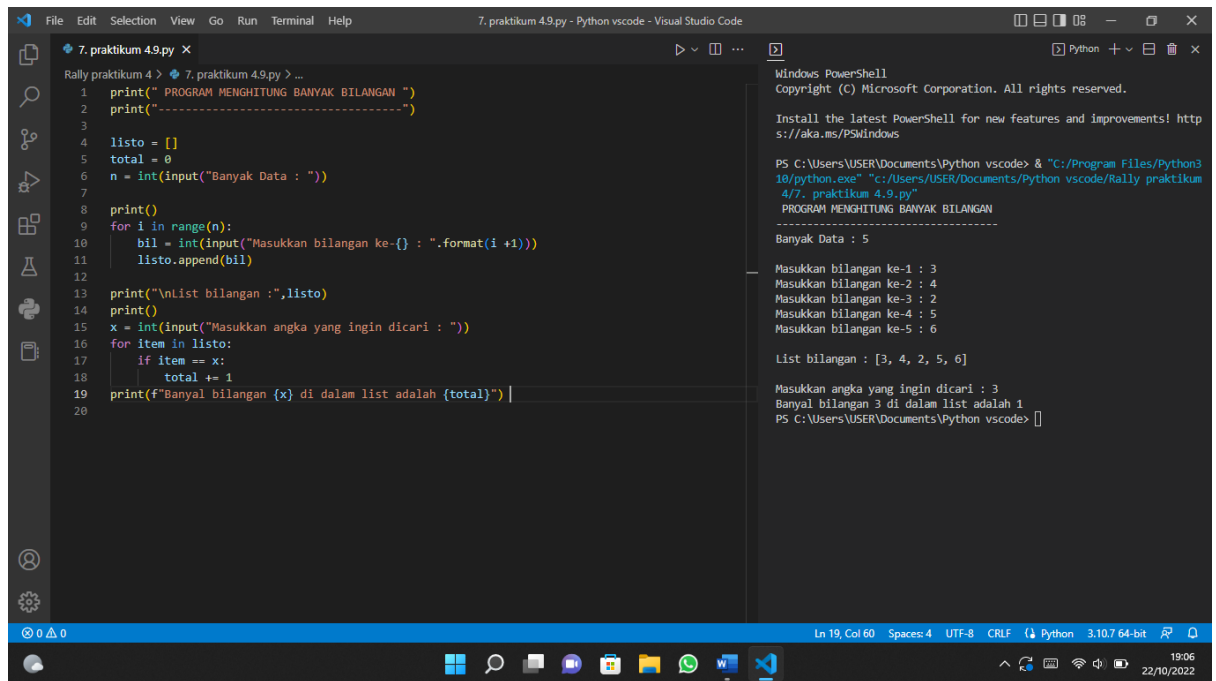
List bilangan : [5, 15, 7, 20, 6]

Bilangan didalam list yang berkelipatan 5 adalah :
5 15 20

Jadi, banyaknya bilangan yang berkelipatan 5 adalah :
3

PS C:\Users\USER\Documents\Python vscodex > |

7. Pratikum 4.9



The image shows a Visual Studio Code editor window with a Python file named '7. praktikum 4.9.py'. The code is a Python script that calculates the frequency of numbers in a list. The script prompts the user for the number of data points, then for each data point, and finally for the number to be searched. It then prints the list and the frequency of the searched number.

```
1 print(" PROGRAM MENGHITUNG BANYAK BILANGAN ")
2 print("-----")
3
4 listo = []
5 total = 0
6 n = int(input("Banyak Data : "))
7
8 print()
9 for i in range(n):
10     bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1)))
11     listo.append(bil)
12
13 print("\nList bilangan :",listo)
14 print()
15 x = int(input("Masukkan angka yang ingin dicari : "))
16 for item in listo:
17     if item == x:
18         total += 1
19 print(f"Banyak bilangan {x} di dalam list adalah {total}")
20
```

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

```
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PS C:\Users\USER\Documents\Python vscode> & "C:/Program Files/Python3
10/python.exe" "C:/Users/USER/Documents/Python vscode/Rally praktikum
4/7/. praktikum 4.9.py"
PROGRAM MENGHITUNG BANYAK BILANGAN
-----
Banyak Data : 5

Masukkan bilangan ke-1 : 3
Masukkan bilangan ke-2 : 4
Masukkan bilangan ke-3 : 2
Masukkan bilangan ke-4 : 5
Masukkan bilangan ke-5 : 6

List bilangan : [3, 4, 2, 5, 6]

Masukkan angka yang ingin dicari : 3
Banyak bilangan 3 di dalam list adalah 1
PS C:\Users\USER\Documents\Python vscode>
```