

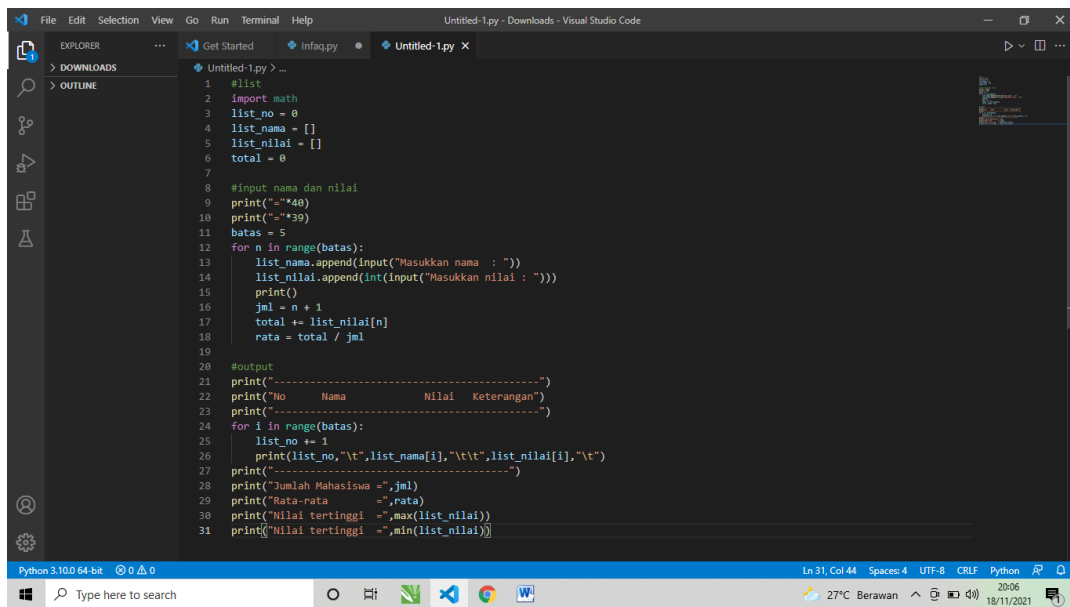
Nama: Ade Lilis Aprianti

Nim: 20.01.013.048

Kelas: AI-B

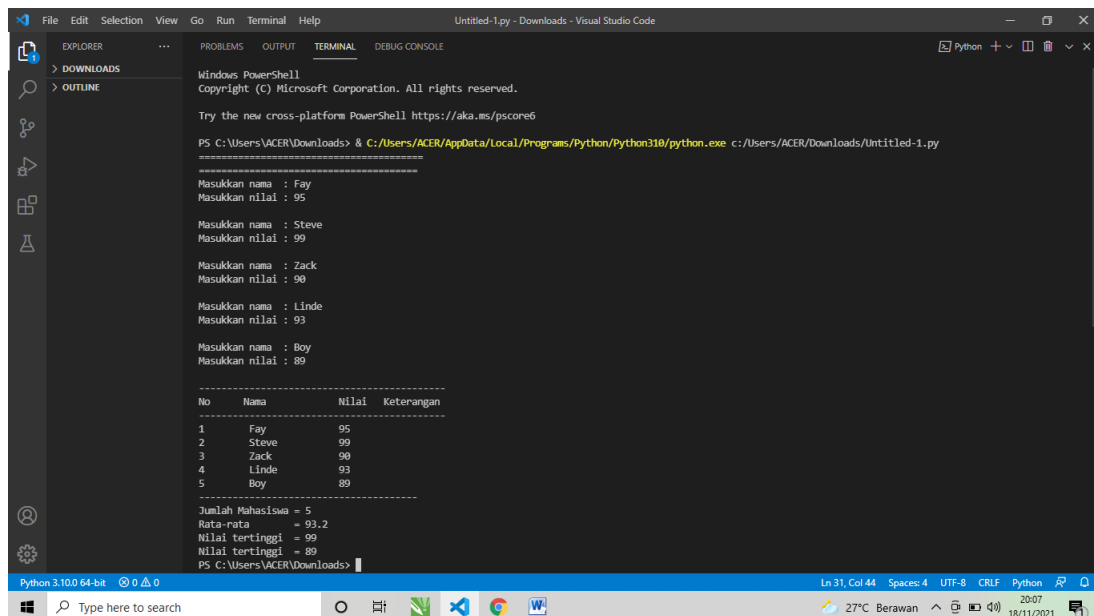
Praktikum python IV.UTS

1.



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

Outputnya:



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

PS C:\Users\ACER\Downloads> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe c:/Users/ACER/Downloads/Untitled-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
Nilai tertinggi = 99
Nilai tertinggi = 89
PS C:\Users\ACER\Downloads>
```

2.

```

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

```

Outputnya:

```

PS C:\Users\VACER\Downloads> & C:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ACER\Downloads\Untitled-1.py
=====
Masukkan nama : Fay
Masukkan nilai : 95

Masukkan nama : Steve
Masukkan nilai : 99

Masukkan nama : Zack
Masukkan nilai : 90

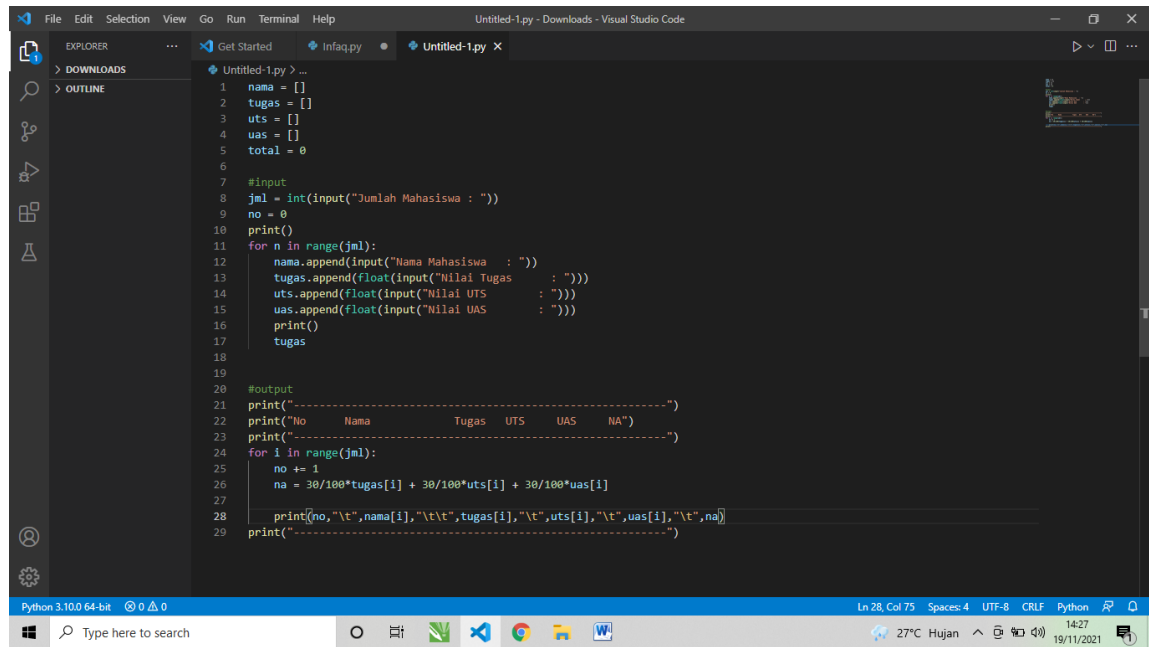
Masukkan nama : Linde
Masukkan nilai : 93

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
Nilai tertinggi = 99
Nilai terendah = 89
PS C:\Users\VACER\Downloads>

```

3.

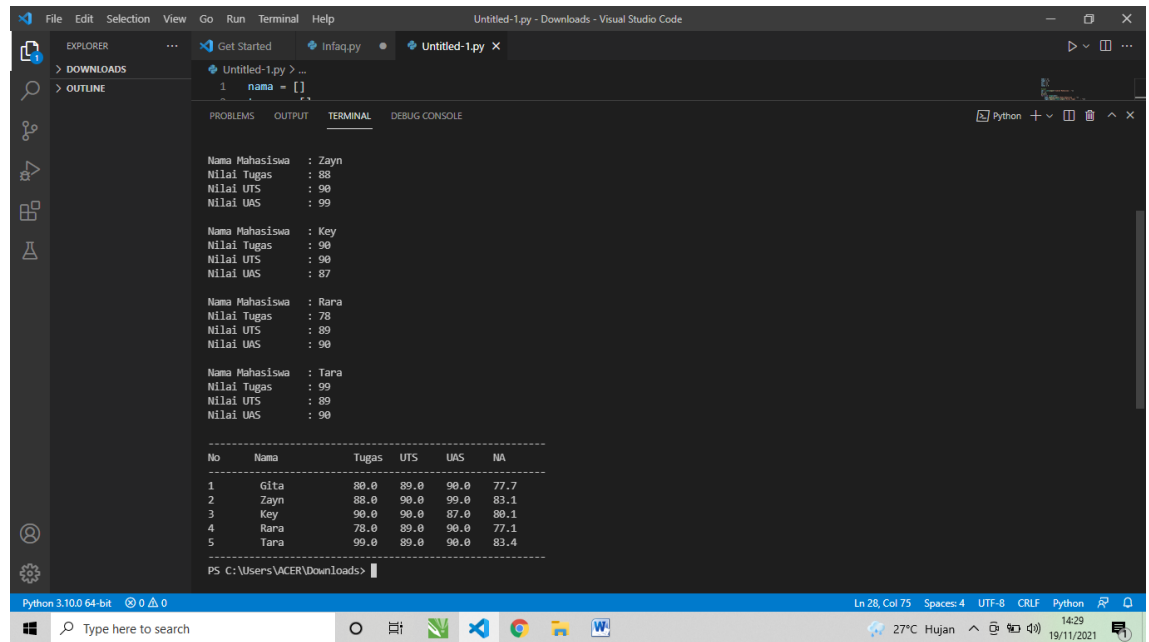


```

1  nama = []
2  tugas = []
3  uts = []
4  uas = []
5  total = 0
6
7  #input
8  jml = int(input("Jumlah Mahasiswa : "))
9  no = 0
10 print()
11 for n in range(jml):
12     nama.append(input("Nama Mahasiswa : "))
13     tugas.append(float(input("Nilai Tugas : ")))
14     uts.append(float(input("Nilai UTS : ")))
15     uas.append(float(input("Nilai UAS : ")))
16     print()
17     tugas
18
19
20 #output
21 print("-----")
22 print("No      Nama      Tugas  UTS    UAS    NA")
23 print("-----")
24 for i in range(jml):
25     no += 1
26     na = 30/100*tugas[i] + 30/100*uts[i] + 30/100*uas[i]
27
28     print(no,"t",nama[i],"t\t",tugas[i],"t",uts[i],"t",uas[i],"t",na])
29 print("-----")

```

Outputnya:



```

1  nama = []

```

Nama Mahasiswa : Zayn
 Nilai Tugas : 88
 Nilai UTS : 90
 Nilai UAS : 99

Nama Mahasiswa : Key
 Nilai Tugas : 90
 Nilai UTS : 90
 Nilai UAS : 87

Nama Mahasiswa : Rara
 Nilai Tugas : 78
 Nilai UTS : 89
 Nilai UAS : 90

Nama Mahasiswa : Tara
 Nilai Tugas : 99
 Nilai UTS : 89
 Nilai UAS : 90

No	Nama	Tugas	UTS	UAS	NA
1	Gita	89.0	89.0	90.0	77.7
2	Zayn	88.0	90.0	99.0	83.1
3	Key	90.0	90.0	87.0	80.1
4	Rara	78.0	89.0	90.0	77.1
5	Tara	99.0	89.0	90.0	83.4

PS C:\Users\VACER\Downloads>

4.

The screenshot shows a Visual Studio Code window with a Python file named 'Untitled-1.py'. The code is as follows:

```

1 print("PROGRAM MENCAIRI BILANGAN GENAP")
2 print("-----\n")
3
4 list = []
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    list.append(bil)
11
12 print()
13 print("list bilangan :", list)
14 print("\nBilangan didalam list yang merupakan angka genap adalah :")
15 for x in list:
16     if x % 2 == 0:
17         print(x, end=" ")

```

The terminal output shows the program execution:

```

Masukkan bilangan ke-2 : 4
Masukkan bilangan ke-3 : 3
Masukkan bilangan ke-4 : 2
Masukkan bilangan ke-5 : 1
Masukkan bilangan ke-6 : 8
Masukkan bilangan ke-7 : 9

List bilangan : [5, 4, 3, 2, 1, 8, 9]

Bilangan didalam list yang merupakan angka genap adalah :
4 2 8
PS C:\Users\ACER\Downloads>

```

5.

The screenshot shows a Visual Studio Code window with a Python file named 'Untitled-1.py'. The code is as follows:

```

1 data = [1,4,5,6,7,8,80,9]
2
3 print("bilangan terbesar =",max(data))

```

The terminal output shows the program execution:

```

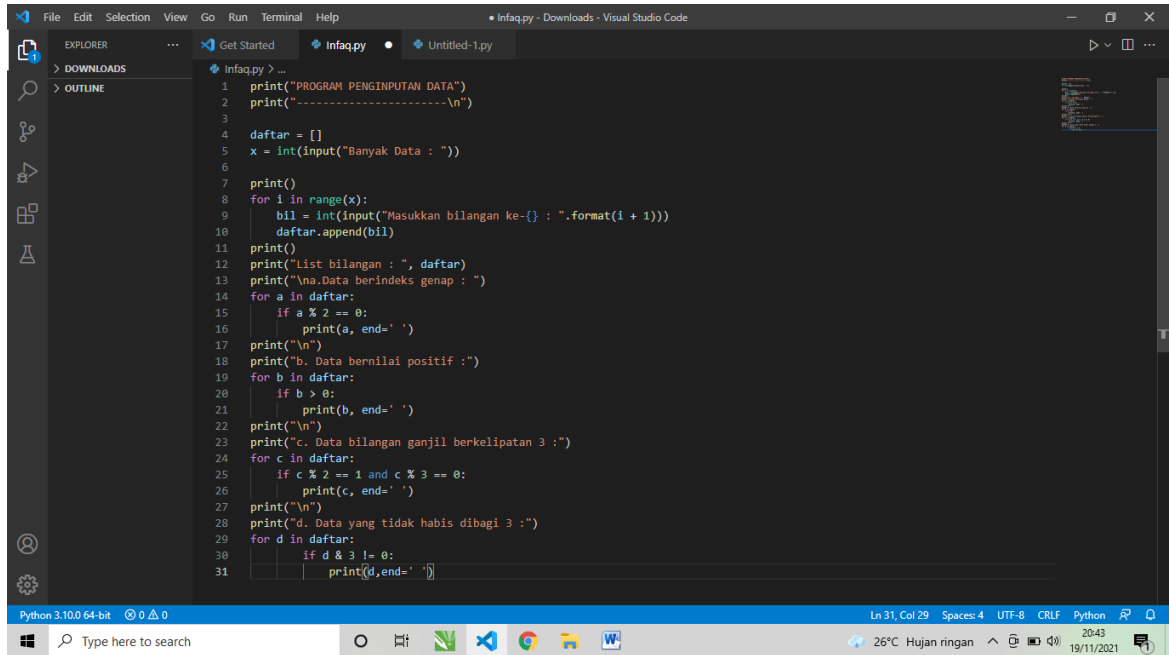
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\ACER\Downloads> & C:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ACER\Downloads\Untitled-1.py
bilangan terbesar = 80
PS C:\Users\ACER\Downloads>

```

6.

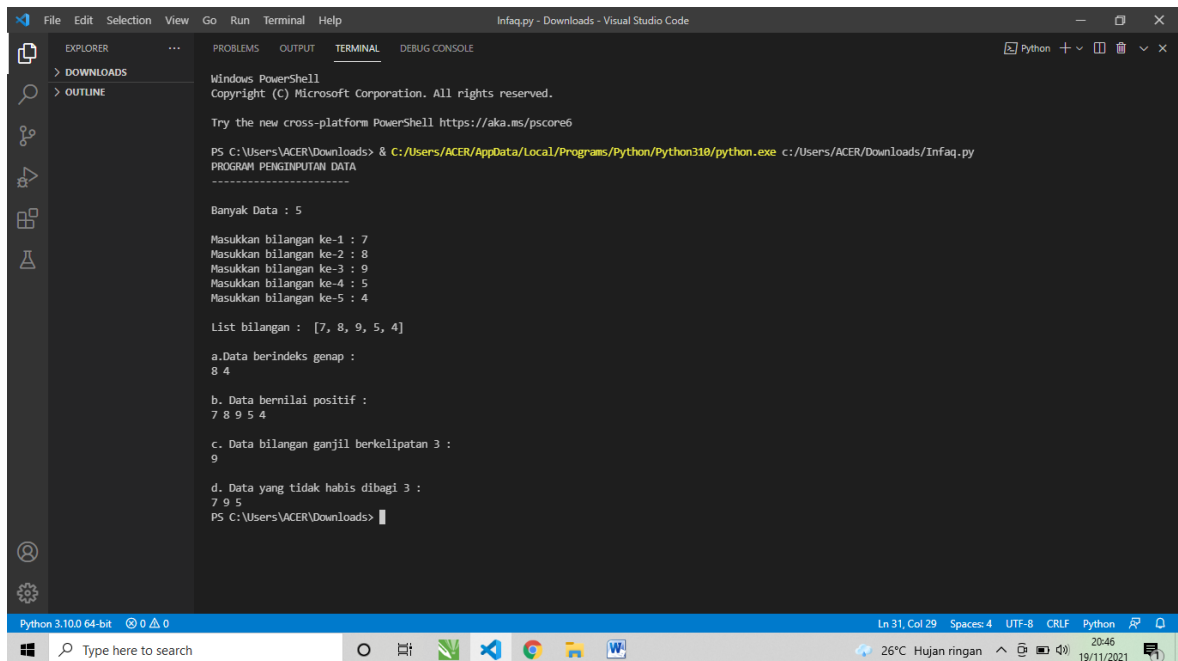


```

1 print("PROGRAM PENGINTUPAN DATA")
2 print("-----\n")
3
4 daftar = []
5 x = int(input("Banyak Data : "))
6
7 print()
8 for i in range(x):
9     bil = int(input("Masukkan bilangan ke-{} : ".format(i + 1)))
10    daftar.append(bil)
11 print()
12 print("List bilangan : ", daftar)
13 print("\na.Data berindeks genap : ")
14 for a in daftar:
15     if a % 2 == 0:
16         print(a, end=' ')
17 print("\n")
18 print("b. Data bernilai positif :")
19 for b in daftar:
20     if b > 0:
21         print(b, end=' ')
22 print("\n")
23 print("c. Data bilangan ganjil berkelipatan 3 :)")
24 for c in daftar:
25     if c % 2 == 1 and c % 3 == 0:
26         print(c, end=' ')
27 print("\n")
28 print("d. Data yang tidak habis dibagi 3 :")
29 for d in daftar:
30     if d % 3 != 0:
31         print(d, end=' ')

```

Outputnya:



```

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

PS C:\Users\ACER\Downloads> & C:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ACER\Downloads\Infapy.py
PROGRAM PENGINTUPAN DATA
-----

Banyak Data : 5

Masukkan bilangan ke-1 : 7
Masukkan bilangan ke-2 : 8
Masukkan bilangan ke-3 : 9
Masukkan bilangan ke-4 : 5
Masukkan bilangan ke-5 : 4

List bilangan : [7, 8, 9, 5, 4]

a.Data berindeks genap :
8 4

b. Data bernilai positif :
7 8 9 5 4

c. Data bilangan ganjil berkelipatan 3 :
9

d. Data yang tidak habis dibagi 3 :
7 9 5
PS C:\Users\ACER\Downloads>

```

7.

```

File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code

EXPLORER
> DOWNLOADS
> OUTLINE

Get Started Infoq.py Untitled-1.py x

1 print("PROGRAM MENCAIRI BANYAK DATA BERKELIPATAN 5")
2 print("-----\n")
3
4 list_1 = []
5 list_2 = []
6 x = int(input("Banyak Data : "))
7
8 print()
9 for i in range(x):
10     bil = int(input("Masukan bilangan ke-{:} : ".format(i + 1)))
11     list_1.append(bil)
12
13 print()
14 print("List bilangan :", list_1)
15 print("\nBilangan di dalam list yang berkelipatan 5 adalah :")
16 for x in list_1:
17     if x % 5 == 0:
18         print(x, end=' ')
19         list_2.append(x)
20
21 print()
22 print("\nJadi, banyaknya bilangan yang berkelipatan 5 adalah :")
23 print(len(list_2))

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python

Jadi, banyaknya bilangan yang berkelipatan 5 adalah :
1
PS C:\Users\VACER\Downloads>

Python 3.10.0 64-bit 0 0 0 Ln 10, Col 58 Spaces: 4 UTF-8 CRLF Python 20:51 19/11/2021
Type here to search 25°C Hujan sedang

```

Outputnya:

```

File Edit Selection View Go Run Terminal Help
Untitled-1.py - Downloads - Visual Studio Code

EXPLORER
> DOWNLOADS
> OUTLINE

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Python

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

PS C:\Users\VACER\Downloads> & C:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe c:\Users\ACER\Downloads\Untitled-1.py
PROGRAM MENCAIRI BANYAK DATA BERKELIPATAN 5
-----

Banyak Data : 4

Masukan bilangan ke-X1 : 5
Masukan bilangan ke-X2 : 6
Masukan bilangan ke-X3 : 7
Masukan bilangan ke-X4 : 8

List bilangan : [5, 6, 7, 8]

Bilangan di dalam list yang berkelipatan 5 adalah :
5

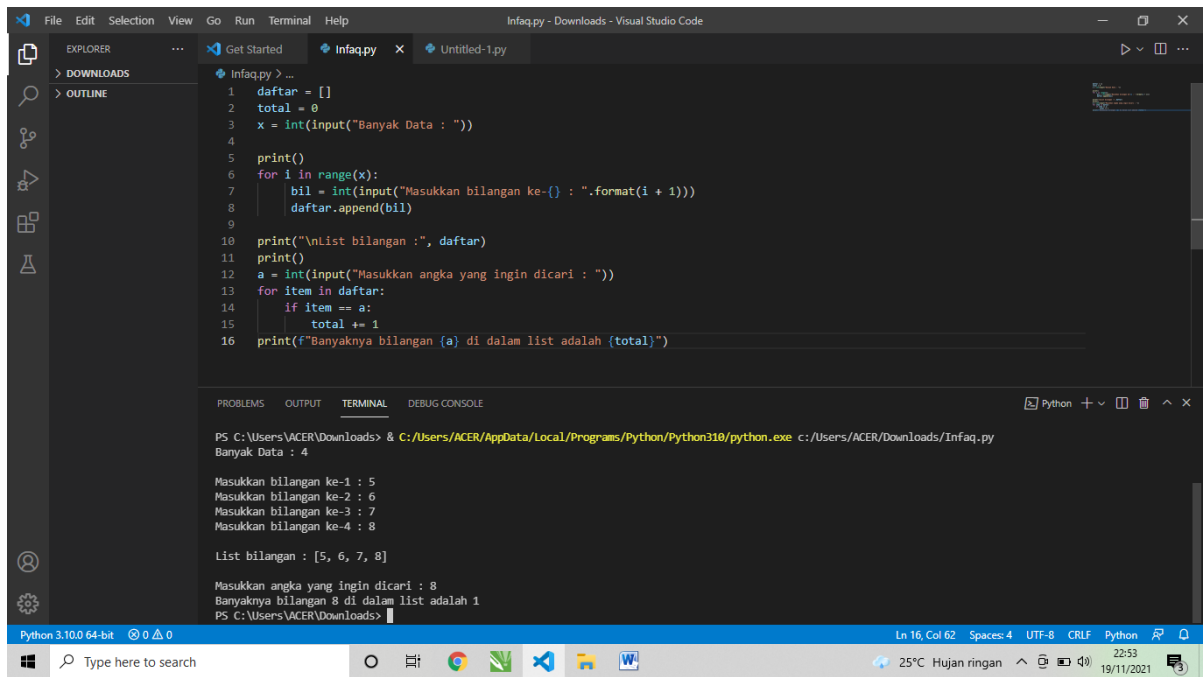
Jadi, banyaknya bilangan yang berkelipatan 5 adalah :
1
PS C:\Users\VACER\Downloads>

Python 3.10.0 64-bit 0 0 0 Ln 10, Col 58 Spaces: 4 UTF-8 CRLF Python 20:52 19/11/2021
Type here to search 25°C Hujan sedang

```

8.

9.



The screenshot shows the Visual Studio Code interface with a Python script named 'Infaq.py' open in the editor. The script is designed to collect a list of numbers and then find a specific number within that list. The terminal window at the bottom shows the execution of the script, where the user has entered '4' for the number of data points, followed by four numbers (5, 6, 7, 8) for the list. Finally, the user entered '8' for the target number, and the script correctly identified it as being present in the list.

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

Terminal Output:

```
PS C:\Users\VACER\Downloads> & C:\Users\ACER\AppData\Local\Programs\Python\Python310\python.exe c:/Users/ACER/Downloads/Infaq.py
Banyak Data : 4

Masukkan bilangan ke-1 : 5
Masukkan bilangan ke-2 : 6
Masukkan bilangan ke-3 : 7
Masukkan bilangan ke-4 : 8

List bilangan : [5, 6, 7, 8]

Masukkan angka yang ingin dicari : 8
Banyaknya bilangan 8 di dalam list adalah 1
PS C:\Users\VACER\Downloads>
```