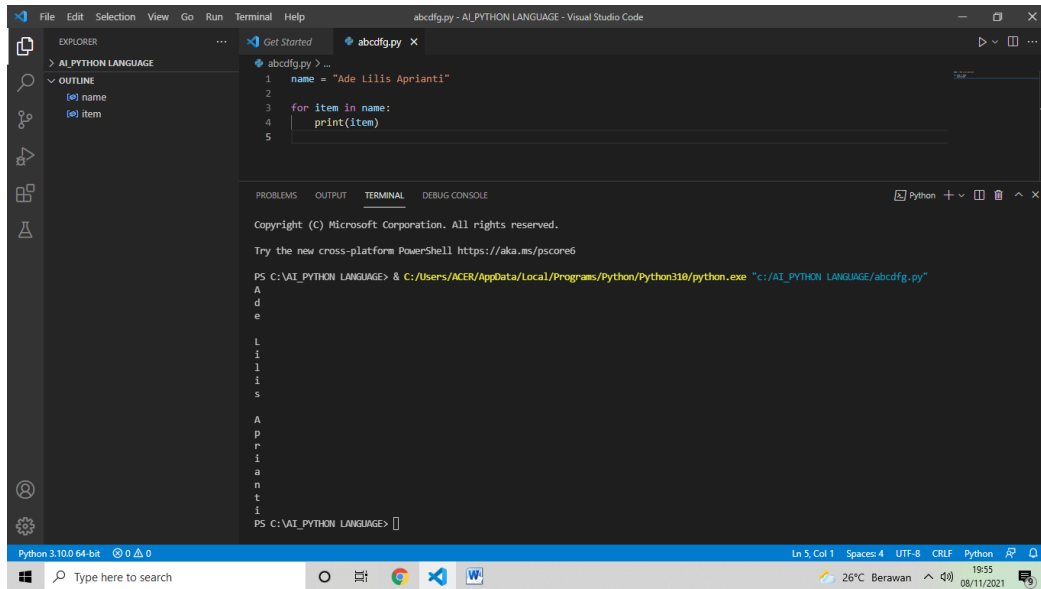


Nama: Ade Lilis Aprianti

Nim: 20.01.013.048

Kelas: AI-B

1. Perulangan for



The screenshot shows the Visual Studio Code interface with a Python file named `abcfg.py`. The code defines a string `name = "Ade Lilis Aprianti"` and uses a `for` loop to iterate over each character in the string, printing each character on a new line. The terminal output shows the execution of the script, displaying the string "Ade Lilis Aprianti" character by character.

```
1 name = "Ade Lilis Aprianti"
2
3 for item in name:
4     print(item)
5
```

Terminal Output:

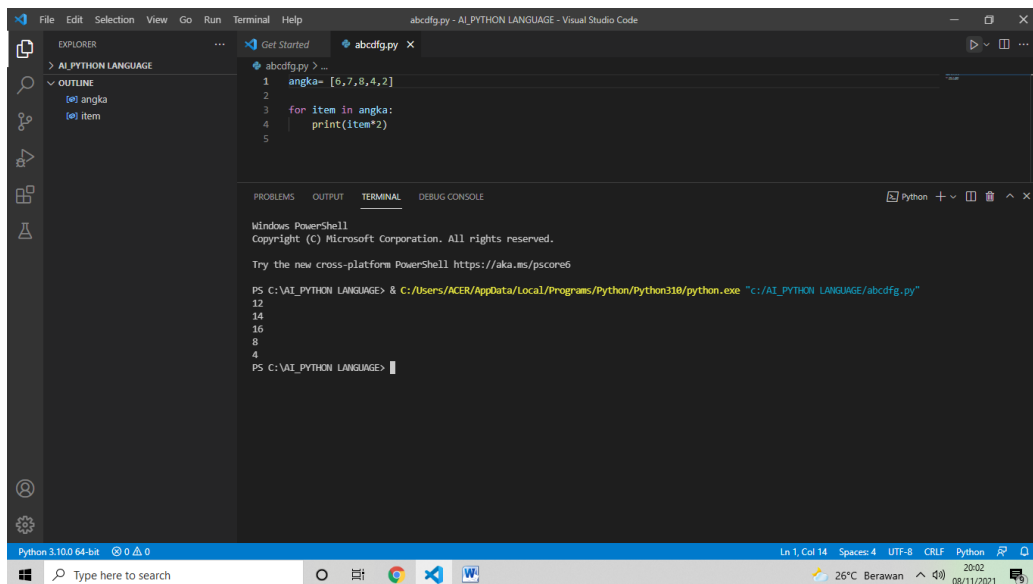
```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abcfg.py"
A
d
e

L
i
l
i
s

A
p
r
i
a
n
t
i

PS C:\AI_PYTHON LANGUAGE>
```



The screenshot shows the Visual Studio Code interface with a Python file named `abcfg.py`. The code defines a list `angka = [6, 7, 8, 4, 2]` and uses a `for` loop to iterate over each element in the list, printing each element squared. The terminal output shows the execution of the script, displaying the squared values of the list elements: 36, 49, 64, 16, and 4.

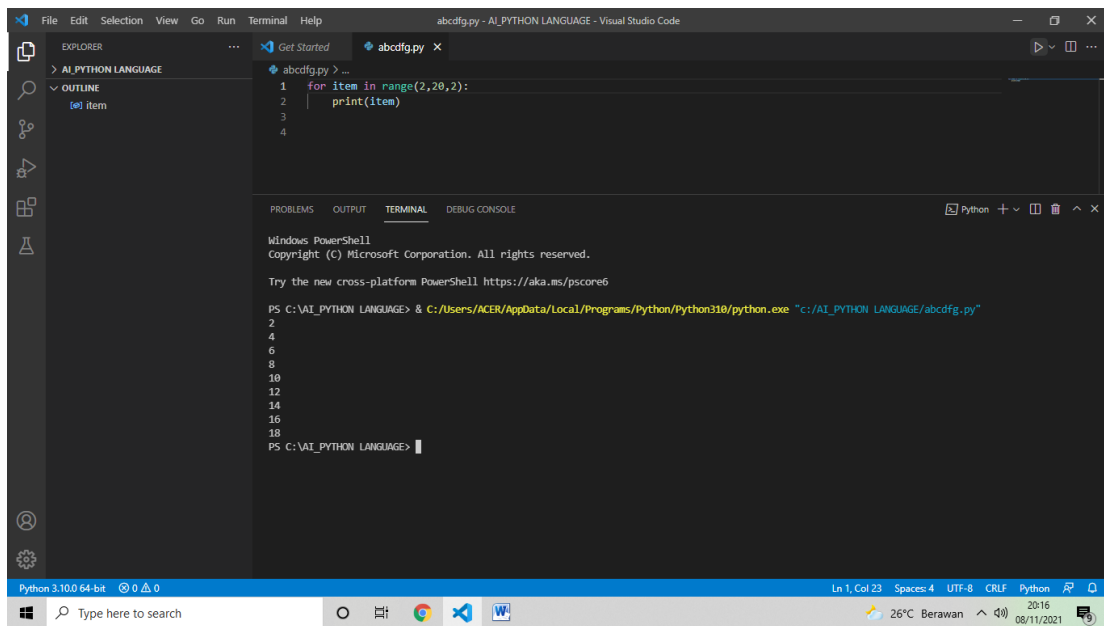
```
1 angka = [6, 7, 8, 4, 2]
2
3 for item in angka:
4     print(item*2)
5
```

Terminal Output:

```
Windows PowerShell
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PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abcfg.py"
12
14
16
8
4

PS C:\AI_PYTHON LANGUAGE>
```



The screenshot shows the Visual Studio Code interface with a file named `abcfg.py` open. The code in the editor is a simple loop that prints even numbers from 2 to 20. The terminal at the bottom shows the command to run the script using `python.exe`, and the output displays the sequence of numbers: 2, 4, 6, 8, 10, 12, 14, 16, 18.

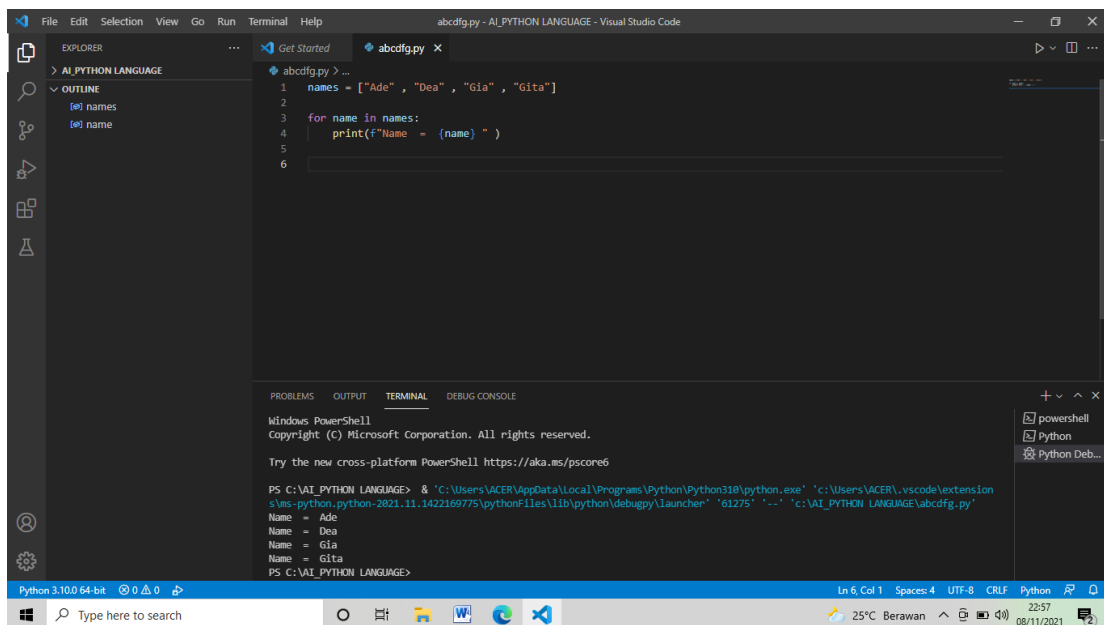
```
1 for item in range(2,20,2):
2     print(item)
3
4
```

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

PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/python310/python.exe "c:/AI_PYTHON LANGUAGE/abcfg.py"
2
4
6
8
10
12
14
16
18
PS C:\AI_PYTHON LANGUAGE>
```

2. List



The screenshot shows the Visual Studio Code interface with a file named `abcfg.py` open. The code defines a list `names` containing the strings "Ade", "Dea", "Gia", and "Gita". It then uses a `for` loop to iterate over each element in the list and prints it. The terminal output shows the names being printed one by one.

```
1 names = ["Ade", "Dea", "Gia", "Gita"]
2
3 for name in names:
4     print(f"Name = {name} ")
5
6
```

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

PS C:\AI_PYTHON LANGUAGE> & 'C:\Users\VACER\AppData\Local\Programs\Python\Python310\python.exe' 'c:/Users/VACER/.vscode/extensions/sms-python.python-2021.11.1422169775/pythonFiles/lib/python/launcher' '61275' '-.' 'c:/AI_PYTHON LANGUAGE/abcfg.py'
Name = Ade
Name = Dea
Name = Gia
Name = Gita
PS C:\AI_PYTHON LANGUAGE>
```

3. List Method

- Append: menambahkan nilai pada index
- Insert: memasukan nilai pada index sesuai dengan index yang ditentukan
- Pop: menghapus nilai sesuai urutan index
- Remove: menghapus nilai dengan cara langsung menuliskan nilainya
- Sort: mengurutkan nilai pada index dari yang kecil ke yang besar

The screenshot shows the Visual Studio Code interface with a Python file named 'abdcfg.py' open. The code in the editor is as follows:

```
1 numbers = [5, 6, 7, 8, 9]
2
3 numbers.append(99)
4 print(numbers)
5
6 numbers.insert(2, 100)
7 print(numbers)
8
9 numbers.pop(6)
10 print(numbers)
11
12 numbers.remove(6)
13 print(numbers)
14
15 numbers.sort()
16 print(numbers)
```

The terminal window at the bottom shows the output of the script:

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

PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abdcfg.py"
[5, 6, 7, 8, 9, 99]
[5, 6, 100, 7, 8, 9, 99]
[5, 6, 100, 7, 8, 9]
[5, 100, 7, 8, 9]
[5, 7, 8, 9, 100]
PS C:\AI_PYTHON LANGUAGE>
```

4. Mejumlahkan List

The screenshot shows the Visual Studio Code interface with a Python file named 'abdcfg.py' open. The code in the editor is as follows:

```
1 numbers = [5, 6, 7, 8, 9]
2
3 init_number = 0
4
5 for number in numbers :
6     init_number = init_number + number
7
8 print(init_number)
```

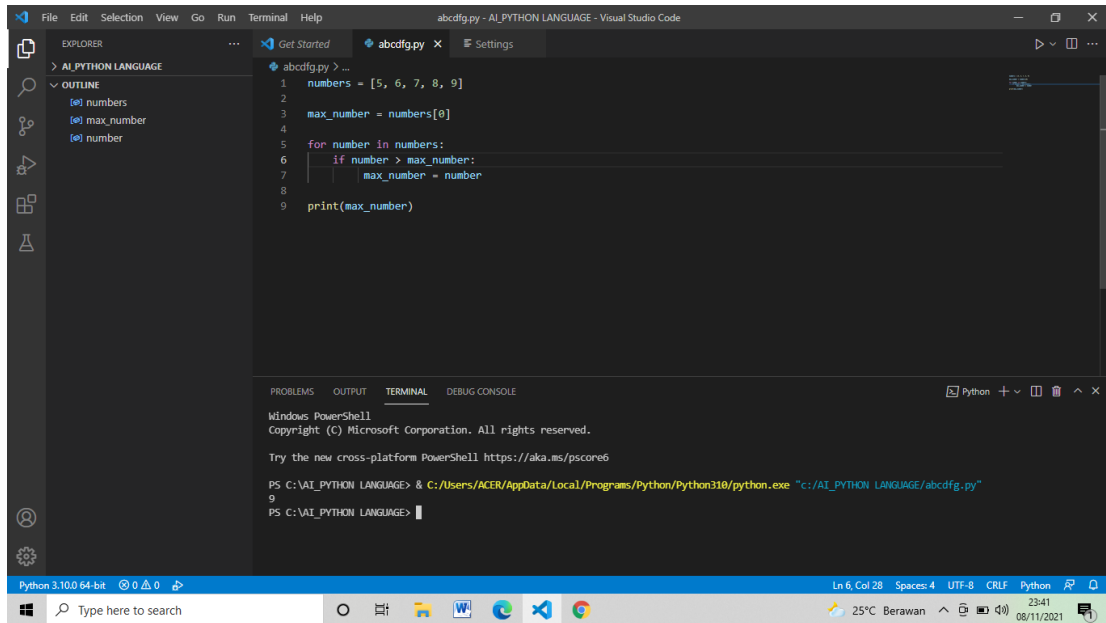
The terminal window at the bottom shows the output of the script:

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

PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abdcfg.py"
35
PS C:\AI_PYTHON LANGUAGE>
```

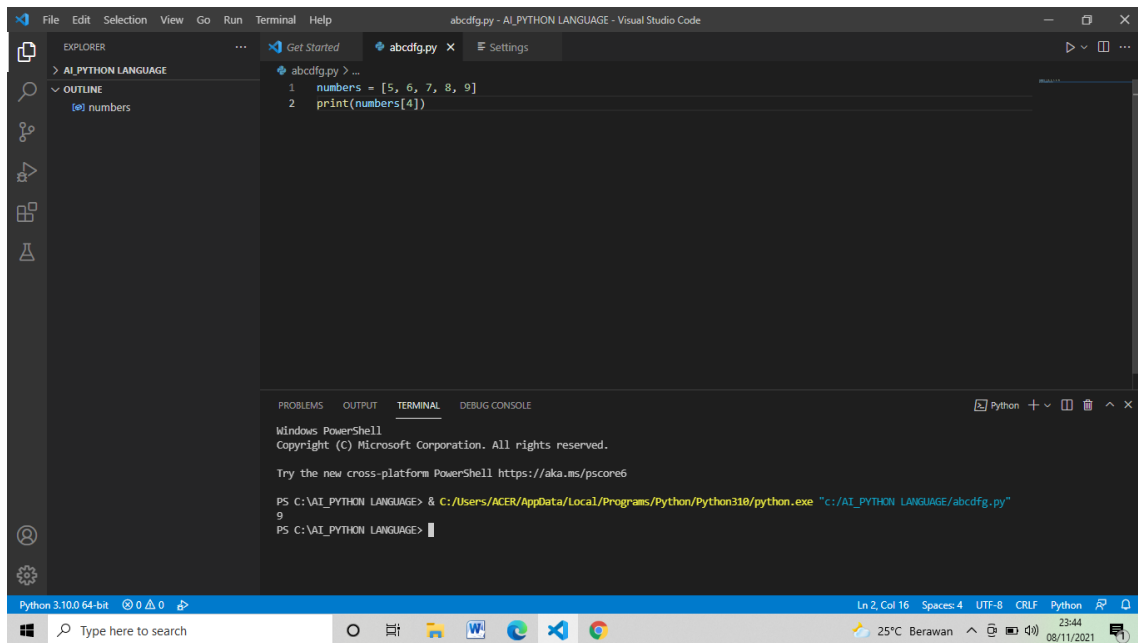
5. Mencari Angka Max



The screenshot shows the Visual Studio Code editor with a Python file named `abcfg.py`. The code defines a list `numbers = [5, 6, 7, 8, 9]`, initializes `max_number = numbers[0]`, and uses a `for` loop to iterate through the list, updating `max_number` if a larger value is found. The final result is printed. The terminal shows the command to run the script: `PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abcfg.py"`.

```
1 numbers = [5, 6, 7, 8, 9]
2
3 max_number = numbers[0]
4
5 for number in numbers:
6     if number > max_number:
7         max_number = number
8
9 print(max_number)
```

6. Tuple

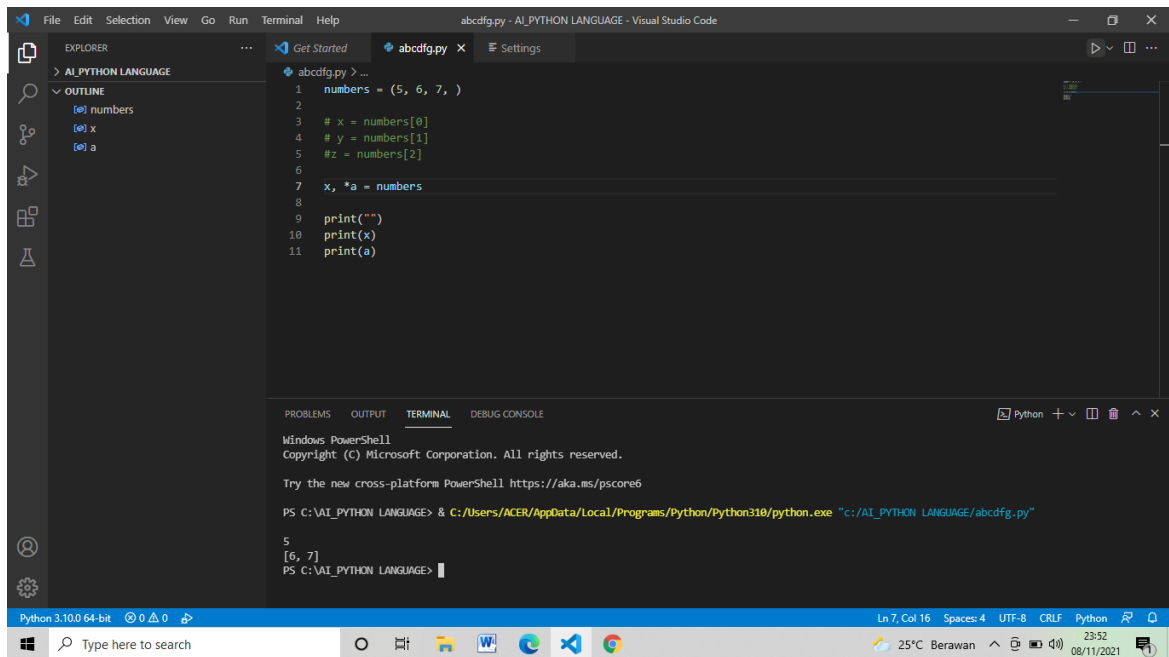


The screenshot shows the Visual Studio Code editor with a Python file named `abcfg.py`. The code defines a list `numbers = [5, 6, 7, 8, 9]` and attempts to print `numbers[4]`. The terminal shows the command to run the script: `PS C:\AI_PYTHON LANGUAGE> & C:/Users/ACER/AppData/Local/Programs/Python/Python310/python.exe "c:/AI_PYTHON LANGUAGE/abcfg.py"`.

```
1 numbers = [5, 6, 7, 8, 9]
2 print(numbers[4])
```

Tupel(immutable): nilai dalam index tidak bisa diubah ubah seperti list method

7. Unpack



8. Dictionary

