

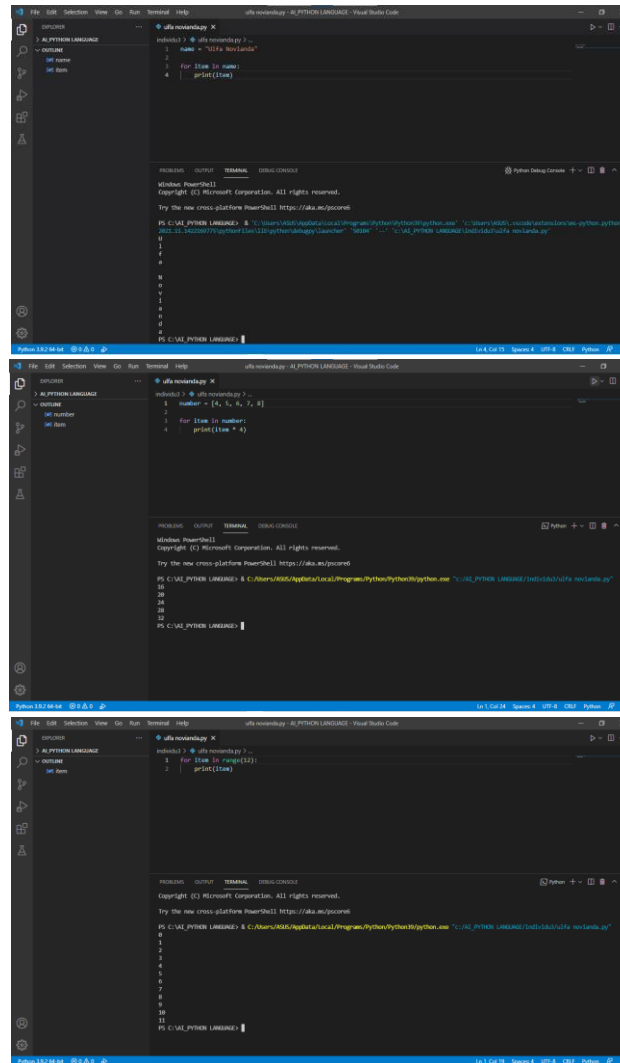
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Nim : 20.01.013.042

Kelas : Kecerdasan Buatan (AI-3B)

Tugas python 4

- Perungan for



The image displays three sequential screenshots of a Python IDE, likely Visual Studio Code, showing the execution of for loops. Each screenshot includes a file explorer on the left, a code editor in the center, and a terminal/output window at the bottom.

Top Screenshot: The code defines a variable `nama = "Ulfa Novianda"` and uses a for loop to iterate over each character in the string. The output in the terminal shows each character of the name on a new line.

```
1 nama = "Ulfa Novianda"
2
3 for i in nama:
4     print(i)
```

Middle Screenshot: The code defines a variable `number = [4, 5, 6, 7, 8]` and uses a for loop to iterate over each element in the list. The output in the terminal shows each number on a new line.

```
1 number = [4, 5, 6, 7, 8]
2
3 for i in number:
4     print(i)
```

Bottom Screenshot: The code uses a for loop with a range to iterate from 1 to 10. The output in the terminal shows the numbers 1 through 10 on separate lines.

```
1 for i in range(10):
2     print(i)
```

- List

```
def main():  
    # Create a list  
    names = ["Andi", "Agus", "Reni", "Muti"]  
    for name in names:  
        print("Name = " + name)
```

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```
Windows PowerShell  
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PS C:\AI_PYTHON_LANGUAGE> & C:\Users\AGUS\AppData\Local\Programs\Python\Python38\python.exe "%AI_PYTHON_LANGUAGE%\main.py"  
Name = Andi  
Name = Agus  
Name = Reni  
Name = Muti  
PS C:\AI_PYTHON_LANGUAGE>
```

- List Method

```
def main():  
    # Create a list  
    numbers = [2, 4, 5, 6, 10]  
    numbers.append(99)  
    print(numbers)  
    numbers.insert(2, 100)  
    print(numbers)  
    numbers.pop(5)  
    print(numbers)  
    numbers.remove(5)  
    print(numbers)
```

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```
Windows PowerShell  
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PS C:\AI_PYTHON_LANGUAGE> & C:\Users\AGUS\AppData\Local\Programs\Python\Python38\python.exe "%AI_PYTHON_LANGUAGE%\main.py"  
[2, 4, 5, 6, 10, 99]  
[2, 4, 100, 5, 6, 10, 99]  
[2, 4, 100, 5, 6, 10]  
[2, 4, 5, 6, 10, 99]  
PS C:\AI_PYTHON_LANGUAGE>
```

- Append berfungsi menambah nilai pada index.
- Insert berfungsi memasukan nilai pada index sesuai dengan index yang si tentukan.
- Pop berfungsi menghapus nilai sesuai urutan index.
- Remove berfungsi menghapus nilai dengan cara langsung menuliskan nilai nya.
- Sort berfungsi mengurutkan nilai pada index dari yang terkecil ke yang terbesar.

- Menjumlahkan List

```
def main():  
    # Create a list  
    numbers = [1, 2, 3, 7, 8]  
    list_number = 0  
    for number in numbers:  
        list_number = list_number + number  
    print(list_number)
```

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```
Windows PowerShell  
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PS C:\AI_PYTHON_LANGUAGE> & C:\Users\AGUS\AppData\Local\Programs\Python\Python38\python.exe "%AI_PYTHON_LANGUAGE%\main.py"  
21  
PS C:\AI_PYTHON_LANGUAGE>
```

- Mencari Angka Max

```

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

```

Terminal output:

```

PS C:\AI_PYTHON_LANGUAGE> python
Python 3.12.0:
>

```

- Tuple

```

1 numbers = (1,2,3,7,8)
2 print(numbers)

```

Terminal output:

```

PS C:\AI_PYTHON_LANGUAGE> python
Python 3.12.0:
>

```

Tuple (immutable) = Nilai di dalam index tidak bisa di ubah-ubah tidak seperti list method.

- Unpack

```

1 numbers = (4,5,6)
2
3 x = numbers[0]
4 y = numbers[1]
5 z = numbers[2]
6
7 x, y, z = numbers
8
9 print("")
10 print(x)
11 print(y)
12 print(z)

```

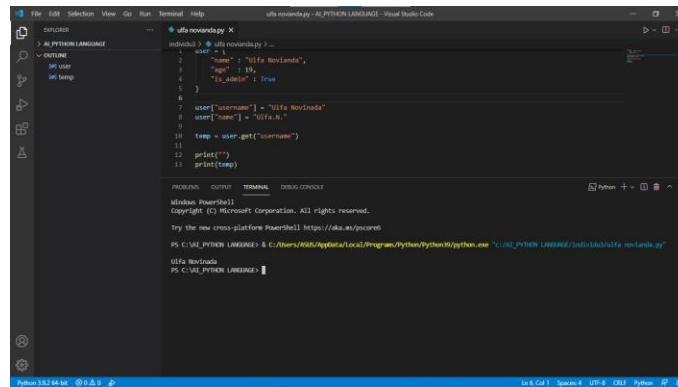
Terminal output:

```

PS C:\AI_PYTHON_LANGUAGE> python
Python 3.12.0:
>

```

- Dictionary



The screenshot shows a Python IDE with a file named `ufo_recon.py`. The code defines a dictionary `user` with keys `name`, `age`, and `is_admin`. It then creates a `User` object using `user.get("username")` and prints the `temp` variable.

```
1 user = {  
2     "name": "Ufo Novinada",  
3     "age": 19,  
4     "is_admin": True  
5 }  
6  
7 user["username"] = "Ufo Novinada"  
8 user["name"] = "Ufo.N."  
9  
10 temp = user.get("username")  
11  
12 print("")  
13 print(temp)
```

The terminal output shows the execution of the script, displaying the value of `temp` as `Ufo Novinada`.

```
Microsoft PowerShell  
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PS C:\AI_PYTHON_LANGUAGE> & C:\Users\ASD\AppData\Local\Programs\Python\Python39\python.exe "C:\AI_PYTHON_LANGUAGE\individual\Ufo_recon.py"  
Ufo Novinada  
PS C:\AI_PYTHON_LANGUAGE>
```