

LAPORAN PRAKTIKUM

ALGORITMA DAN STRUKTUR DATA

MODUL 3. COLLECTIONS, ARRAYS, AND LINKED STRUCTURES

3.1 Pengertian Collections

3.2 Array dan Array Dua Dimensi

Latihan 3.1

```
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> A=[[2,3],[5,7]]
>>> A[0][1]
3
>>> A[1][1]
7
```

Latihan 3.2

```
>>> B=[[0 for j in range(3)] for i in range(3)]
>>> B
[[0, 0, 0], [0, 0, 0], [0, 0, 0]]
>>>
```

3.3 Linked Structures

Linked List

```
latihan3_3_1.py - C:\Users\Hadid Aldio I\Desktop\latihan3_3_1.py (3.8.1)
File Edit Format Run Options Window Help
class Node(object):
    """
    Sebuah simpul linked list
    """
    def __init__(self, data, next=None):
        self.data=data
        self.next=next

Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Hadid Aldio I\Desktop\latihan3_3_1.py =====
>>> a=Node(11)
>>> b=Node(52)
>>> c=Node(18)
>>> a.next=b
>>> b.next=c
>>> print(a.data)
11
>>> print(a.next.data)
52
>>> print(a.next.next.data)
18
>>>
```

Advanced Linked List

```
latihan3_3_2.py - C:\Users\Hadid Aldio I\Desktop\latihan3_3_2.py (3.8.1)
File Edit Format Run Options Window Help
class DNode(object):
    def __init__(self, data):
        self.data=data
        self.next=None
        self.prev=None

Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Hadid Aldio I\Desktop\latihan3_3_2.py =====
>>> a=DNode(11)
>>> b=DNode(52)
>>> c=DNode(18)
>>> a.next=b
>>> b.next=c
>>> c.prev=b
>>> b.prev=a
>>> print(a.next.data)
52
>>> print(b.prev.data)
11
>>>
```