

1.

2.

The image shows a Windows desktop with two applications open. On the left is a 'Python 3.7.2 Shell' window, and on the right is a Python IDE window titled 'no2.py - E:\Kuliah\Praktikum ASD\modul3\no2.py (3.7.2)'.

Python 3.7.2 Shell:

```
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3fcd0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
----- RESTART: E:\Kuliah\Praktikum ASD\modul3\no2.py -----
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]

>>>

[[0, 0], [0, 0]]

>>>

[[1, 0, 0, 0, 0], [0, 1, 0, 0, 0], [0, 0, 1, 0, 0], [0, 0, 0, 1, 0], [0, 0, 0, 0, 1]]
>>>
```

Python IDE:

```
no2.py - E:\Kuliah\Praktikum ASD\modul3\no2.py (3.7.2)
File Edit Format Run Options Window Help

def buatMatriks(m, n):
    """Menggunakan dua input"""
    matriks = [[0 for x in range(m)] for i in range(n)]
    print(matriks)

def buatMatriks2(m):
    matriks = [[0 for x in range(m)] for i in range(m)]
    print(matriks)

def buatIdentitas(m):
    n = m
    matriks = [[1 if j == i else 0 for j in range(m)] for i in range(n)]
    print(matriks)

buatMatriks(4,3)
print("\n")
buatMatriks2(2)
print("\n")
buatIdentitas(5)

Ln: 12 Col: 0
```

3.

```

3.py - E:\Kuliah\Praktikum ASD\3\3.py (3.7.2)
File Edit Format Run Options Window Help

def __init__(self):
    self.head = None

def tambahDepan(self, new_data):
    new_node = Node(new_data)
    new_node.next = self.head
    self.head = new_node

def tambahAkhir(self, data):
    if (self.head == None):
        self.head = Node(data)
    else:
        current = self.head
        while (current.next != None):
            current = current.next
        current.next = Node(data)
    return self.head

def tambah(self, data, posisinya):
    node = Node(data)
    if not self.head:
        self.head = node
    elif posisinya==0:
        node.next = self.head
        self.head = node

Python 3.7.2 Shell
File Edit Shell Debug Options Window Help

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>>>
===== RESTART: E:\Kuliah\Praktikum ASD\3\3.py =====
True
False
1 4 0 9 4
>>>
Ln: 8 Col: 4

```

4.

```

4.py - E:\Kuliah\Praktikum ASD\3\4.py (3.7.2)
File Edit Format Run Options Window Help

class Node:
    def __init__(self, data):
        self.data = data
        self.prev = None

class Nodes:
    def __init__(self):
        self.head = None

    def awal(self, new_data):
        print("tambah simpul awal", new_data)
        new_node = Node(new_data)
        new_node.next = self.head
        if self.head is not None:
            self.head.prev = new_node
        self.head = new_node

    def akhir(self, new_data):
        print("tambah simpul akhir", new_data)
        new_node = Node(new_data)
        new_node.next = None
        if self.head is None:
            new_node.prev = None
            self.head = new_node
        else:
            self.head.next = new_node
            new_node.prev = self.head
        return self.head

Python 3.7.2 Shell
File Edit Shell Debug Options Window Help

Python 3.7.2 (tags/v3.7.2:9a3ff0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit (Intel)] on win32
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>>>
===== RESTART: E:\Kuliah\Praktikum ASD\3\4.py =====
tambah simpul awal 4
tambah simpul awal 1
tambah simpul akhir 0
tambah simpul akhir 4

Depan :
1
4
0
4

Belakang :
4
0
4
1
>>>
Ln: 21 Col: 4

```