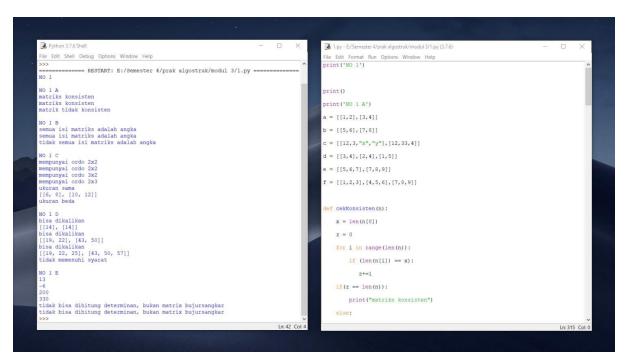
Nama: Karina Muslimah

NIM : L200180138

MODUL 3

1.



2.



```
Rython 3.7.6 Shell
                                                                                          3.py - E:\Semester 4\prak algostruk\modul 3\3.py (3.7.6)
File Edit Shell Debug Options Window Help
Python 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 01:54:44) [MSC v.1916 64 bit /
(MMD64)) on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                           File Edit Format Run Options Window Help
print ('\nNO 3')
                                                                                                            class Node:
            ==== RESTART: E:\Semester 4\prak algostruk\modul 3\3.py ===
                                                                                                                def __init__(self, data):
                                                                                                                     self.data = data
Frue
False
2 14 12 22 21 1 9
                                                                                                                     self.next = None
                                                                                                             class LinkedList:
                                                                                                                def init (self):
                                                                                                                     self.head = None
                                                                                                                def pushAw(self, new_data):
                                                                                                                    new_node = Node(new_data)
                                                                                                                     new_node.next = self.head
                                                                                                                     self.head = new_node
                                                                                                                def pushAk(self, data):
                                                                                                                    if (self.head == None):
                                                                                                                          current = self.head
                                                                                                                          while (current.next != None):
                                                                                                                              current = current.next
                                                                                                                          current.next = Node(data)
```

4.

```
File Edit Format Run Options Window Help
print ('\n\nNO 4')
File Edit Shell Debug Options Window Help
Fython 3.7.6 (tags/v3.7.6:43364a7ae0, Dec 19 2019, 01:54:44) [MSC v.1916 64 bit ^
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
                                                                                                                 lass Node:
      ======= RESTART: E:\Semester 4\prak algostruk\modul 3\4.py ==
                                                                                                                    def init (self, data):
                                                                                                                          self.data = data
NO 4
menambah pada awal 7
menambah pada awal 1
menambah pada akhir 6
menambah pada akhir 4
                                                                                                                         self.prev = None
                                                                                                                  lass DoublyLinkedList:
                                                                                                                    def __init__(self):
Dari Depan :
                                                                                                                         self.head = None
                                                                                                                    def awal(self, new_data):
                                                                                                                         print("menambah pada awal", new_data)
Dari Belakang :
                                                                                                                         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("menambah pada akhir", new_data)
                                                                                                                         new_node = Node(new_data)
                                                                                                                         new node.next = None
                                                                                                                          if self.head is None:
```