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

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

    def add_song(self, data):
        new_node = Node(data)
        if not self.head:
            self.head = new_node
            return
        last = self.head
        while last.next:
            last = last.next
        last.next = new_node
        new_node.prev = last

    def display_forward(self):
        current = self.head
        while current:
            print(current.data, end=" <-> ")
            current = current.next
        print("None")

    def display_backward(self):
        current = self.head
        if not current:
            return
        while current.next:
            current = current.next
        while current:
            print(current.data, end=" <-> ")
            current = current.prev
        print("None")

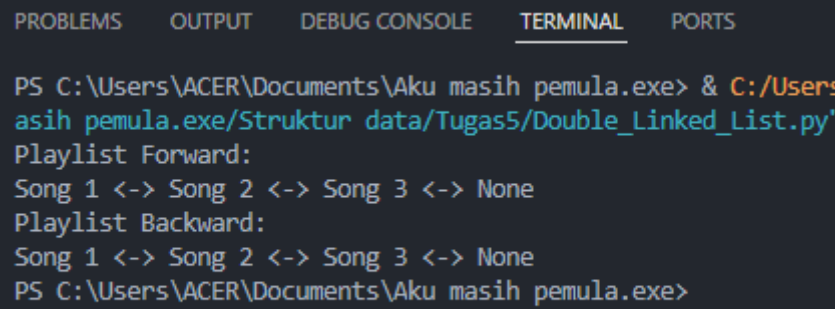
# Penggunaan
Playlist = Playlist()
Playlist.add_song("Song 1")
Playlist.add_song("Song 2")
Playlist.add_song("Song 3")

print("Playlist Forward:")
Playlist.display_forward() # Output Song 1 <-> Song 2 <-> Song 3 <-> None

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print("Playlist Backward:")
Playlist.display_forward() # Output Song 3 <-> Song 2 <-> Song 1 <->
None
```

Output



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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\ACER\Documents\Aku masih pemula.exe> & C:/Users/
asih pemula.exe/Struktur data/Tugas5/Double_Linked_List.py'
Playlist Forward:
Song 1 <-> Song 2 <-> Song 3 <-> None
Playlist Backward:
Song 1 <-> Song 2 <-> Song 3 <-> None
PS C:\Users\ACER\Documents\Aku masih pemula.exe>
```