Started on	Tuesday, 25 February 2025, 9:21 AM
State	Finished
Completed on	Tuesday, 25 February 2025, 10:07 AM
Time taken	46 mins
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Type a python function to insert elements at the beginning of the doubly linked list.

Answer: (penalty regime: 0 %)

Reset answer

```python
class Node:
    def __init__(self, data):
        self.item = data
        self.nref = None
        self.pref = None

class DoublyLinkedList:
    def __init__(self):
        self.start_node = None

    def insert_in_emptylist(self, data):
        if self.start_node is None:
            new_node = Node(data)
            self.start_node = new_node
        else:
            print("list is not empty")

    def insert_at_start(self, data):
        new_node=Node(data)
        if self.start_node is None:
            self.start_node=new_node
        else:
```

	Expected	Got	
✔	10 20 30 40	10 20 30 40	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program to insert an element (String) after the specified element in singly linked list.

Answer: (penalty regime: 0 %)

Reset answer

```python
1  class Node:
2      def __init__(self, data):
3          self.data = data
4          self.next = None
5  
6  class LinkedList:
7      def __init__(self):
8          self.head = None
9  
10     def traverse_list(self):
11         if self.head is None:
12             print("List has no element")
13             return
14         else:
15             n = self.head
16             while n is not None:
17                 print(n.data , " ")
18                 n = n.next
19  
20     def insert_at_start(self, data):
21         new_node = Node(data)
22         new_node.next = self.head
```

	Expected	Got	
✔	After inserting elements at the end AI DS ML After inserting elements at the beginning CS AI DS ML Inserting elements after the specified item CS AI DS R_PGM ML	After inserting elements at the end AI DS ML After inserting elements at the beginning CS AI DS ML Inserting elements after the specified item CS AI DS R_PGM ML	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Incorrect

Mark 0.00 out of 20.00

Define a function to delete the last element in the given linked list.

Answer: (penalty regime: 0 %)

Reset answer

```python
1  class Node:
2      def __init__(self, data):
3          self.data = data
4          self.next = None
5
6  class delete_last:
7      def __init__(self):
8          self.head = None
9
10     def removeLastNode(self):
11         {{TYPE THE CODE}}
12
13     def push(self, data):
14         if self.head is None:
15             self.head = Node(data)
16             return
17         new_node = Node(data)
18         temp = self.head
19         while(temp.next):
20             temp = temp.next
21         temp.next = new_node
22
```

Syntax Error(s)

```
  File "__tester__.python3", line 11
    {{TYPE THE CODE}}
         ^
SyntaxError: invalid syntax
```

Incorrect

Marks for this submission: 0.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Write a python program to print the elements in forward and reverse direction in doubly linked list.

Answer: (penalty regime: 0 %)

Reset answer

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

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

    def push(self, 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 append(self, new_data):
        new_node = Node(new_data)
        if self.head is None:
            self.head = new_node
            return
```

	Expected	Got	
✔	Created DLL is: Traversal in forward direction 1 7 6 4 Traversal in reverse direction 4 6 7 1	Created DLL is: Traversal in forward direction 1 7 6 4 Traversal in reverse direction 4 6 7 1	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Add destructor in the following python code

For example:

Input	Result
Kevin 24	Person Created Kevin 24 Kevin Object Destroyed

Answer: (penalty regime: 0 %)

Reset answer

```python
class Person:
    def __init__(self,name,age):
        print("Person Created")
        self.name = name
        self.age = age
    def printInfo(self):
        print(self.name,self.age)
    #add destructor
        print(self.name,"Object Destroyed")

name=input()
age=int(input())
P1=Person(name,age)
#P2=Person("Joe",34)
P1.printInfo()
#P2.printInfo()
del P1
```

	Input	Expected	Got	
✔	Kevin 24	Person Created Kevin 24 Kevin Object Destroyed	Person Created Kevin 24 Kevin Object Destroyed	✔
✔	John 46	Person Created John 46 John Object Destroyed	Person Created John 46 John Object Destroyed	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.