Started on	Wednesday, 9 April 2025, 9:43 AM
State	Finished
Completed on	Wednesday, 9 April 2025, 10:47 AM
Time taken	1 hour 4 mins
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Type a python function to insert element in the doubly linked list in forward and reverse direction.

Answer: (penalty regime: 0 %)

Reset answer

```
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)
        if self.head is None:
            self.head = new_node
            return
        last = self.head
        while last.next:
            last = last.next
        last.next = new_node
        new_node.prev = last
        return

```

	Expected	Got	
✔	Traversal in forward direction 5 3 1 7 Traversal in reverse direction 7 1 3 5	Traversal in forward direction 5 3 1 7 Traversal in reverse direction 7 1 3 5	✔

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

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

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

    def traverse_list(self):
        if self.head is None:
            print("List has no element")
            return
        else:
            n = self.head
            while n is not None:
                print(n.data , " ")
                n = n.next

    def insert_at_start(self, data):
        new_node = Node(data)
        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

Write a python program to display the elements in doubly linked list.

Answer: (penalty regime: 0 %)

Reset answer

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

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

    def InsertToEmptyList(self, data):
        if self.start_node is None:
            new_node = Node(data)
            self.start_node = new_node
        else:
            print("The list is empty")

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

Syntax Error(s)

```
  File "__tester__.python3", line 31
    {{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

Define the function to delete the first element in the given linked list.

Answer: (penalty regime: 0 %)

Reset answer

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

class LinkedList:
    def __init__(self):
        self.head = None
    def append(self, data):
        new_node = Node(data)
        if not self.head:
            self.head = new_node
            return
        last_node = self.head
        while last_node.next:
            last_node = last_node.next
        last_node.next = new_node
    def print_list(self):
        temp = self.head
        while temp:
            print(temp.data, end=" ")
            temp = temp.next
```

	Expected	Got	
✔	The list contains: 10 20 30 40 The list contains: 20 30 40	The list contains: 10 20 30 40 The list contains: 20 30 40	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a python program to print the type of user based on the user choice using elif .

1.Admin

2.Editor

3.Guest

4.Wrong Entry

For example:

Input	Result
1	Admin

Answer: (penalty regime: 0 %)

```
a=int(input())
if a == 1:
    print("Admin")
elif a == 2:
    print("Editor")
elif a == 3:
    print("Guest")
else:
    print("Wrong entry")
```

	Input	Expected	Got	
✔	1	Admin	Admin	✔
✔	3	Guest	Guest	✔
✔	4	Wrong entry	Wrong entry	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.