

Started on	Thursday, 3 April 2025, 11:58 AM
State	Finished
Completed on	Thursday, 3 April 2025, 12:20 PM
Time taken	22 mins 1 sec
Grade	80.00 out of 100.00

Question 1

Not answered

Mark 0.00 out of 20.00

Write a Python program to Get the name, roll no and 4 marks of a student and find & display the total marks using Multilevel inheritance.

For example:

Input	Result
Shiva 212 90 98 95 94	Name: Shiva Rollno: 212 Total Marks out of 400: 377

Answer: (penalty regime: 0 %)

1

Question 2

Correct

Mark 20.00 out of 20.00

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

Answer: (penalty regime: 0 %)

Reset answer

```
19         self.head = Node(data)
20         return
21     temp = Node(data)
22     temp.next = self.head
23     self.head = temp
24
25     def display(self):
26         temp1 = self.head
27         while temp1 is not None:
28             print(temp1.data , end = " ")
29             temp1 = temp1.next
30
31
32 dfront = delete_front()
33 val = int(input("Enter the number of elements to push:\n"))
34 for i in range(val):
35     data = int(input())
36     dfront.push(data)
37
38 dfront.removeFirstNode()
39
40 dfront.display()
```

	Input	Expected	Got	
✓	5 2 6 4 8 9	Enter the number of elements to push: 8 4 6 2	Enter the number of elements to push: 8 4 6 2	✓

Passed all tests! ✓



Marks for this submission: 20.00/20.00.

Question 3

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

```
42         print("item not in list")
43     else:
44         new_node=Node(data)
45         new_node.next=n.next
46         n.next=new_node
47
48 new_linked_list = LinkedList()
49
50 new_linked_list.insert_at_end('AI')
51 new_linked_list.insert_at_end('DS')
52 new_linked_list.insert_at_end('ML')
53 print("After inserting elements at the end")
54 new_linked_list.traverse_list()
55
56 new_linked_list.insert_at_start('CS')
57 print("After inserting elements at the beginning")
58 new_linked_list.traverse_list()
59
60 new_linked_list.insert_after_item('DS', 'R_PGM')
61 print("Inserting elements after the specified item")
62 new_linked_list.traverse_list()
63
```

	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 4

Correct

Mark 20.00 out of 20.00

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

Answer: (penalty regime: 0 %)

Reset answer

```

31 print("\nTraversal in forward direction")
32 while node:
33     print(node.data)
34     last=node
35     node=node.next
36
37 print("\nTraversal in reverse direction")
38 while last:
39     print(last.data)
40     last=last.prev
41
42 llist = DoublyLinkedList()
43 a1 = int(input("Insert the element to add at the end\n"))
44 llist.append(a1)
45 p1 = int(input("Insert the element to add at the beginning\n"))
46 llist.push(p1)
47 p2 = int(input("Insert the element to add at the beginning\n"))
48 llist.push(p2)
49 a2 = int(input("Insert the element to add at the end\n"))
50 llist.append(a2)
51 print ("Created DLL is: ")
52 llist.printList(llist.head)

```

	Input	Expected	Got	
✓	50 10 20 100	Insert the element to add at the end Insert the element to add at the beginning Insert the element to add at the beginning Insert the element to add at the end Created DLL is: Traversal in forward direction 20 10 50 100 Traversal in reverse direction 100 50 10 20	Insert the element to add at the end Insert the element to add at the beginning Insert the element to add at the beginning Insert the element to add at the end Created DLL is: Traversal in forward direction 20 10 50 100 Traversal in reverse direction 100 50 10 20	✓

Passed all tests! ✓



Marks for this submission: 20.00/20.00.

Question 5

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

```

20 def printList(self, node):
21     print("\nTraversal in forward direction")
22     while node:
23
24         print(node.data)
25         last = node
26         node = node.next
27     print("\nTraversal in reverse direction")
28     while last:
29
30         print(last.data)
31         last = last.prev
32
33 llist = DoublyLinkedList()
34
35 llist.push(7)
36 llist.push(1)
37 llist.push(3)
38 llist.push(5)
39
40
41 llist.printList(llist.head)

```

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

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.