Started on	Thursday, 17 July 2025, 3:23 PM
State	Finished
Completed on	Thursday, 17 July 2025, 3:53 PM
Time taken	30 mins 2 secs
Grade	**100.00** 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

```
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:
            new_node.nref = self.start_node
            self.start_node.pref = new_node
            self.start_node = new_node
```

	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

```
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
        self.head= new_node
    def insert_at_end(self, data):
        new_node = Node(data)
```

	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**

Correct

Mark 20.00 out of 20.00

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

Answer: (penalty regime: 0 %)

Reset answer

```
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):
        if self.start_node is None:
            new_node = Node(data)
            self.start_node = new_node
            return
        new_node = Node(data)
        new_node.nref = self.start_node
        self.start_node.pref = new_node
```

	Expected	Got	
✔	18 5 10 50 29 39 49	18 5 10 50 29 39 49	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Define a function to delete an element from a specific location in the given linked list.

Answer: (penalty regime: 0 %)

Reset answer

```
class Node:
    def __init__(self, data):
        self.data = data
        self.next = None
class delete_front:
    def __init__(self):
        self.head = None
    def removeNode(self, position):
        if self.head is None:
            print("List is empty.")
            return
        if position == 1:
            self.head = self.head.next
            return
        temp = self.head
        for i in range(position - 2):
            if temp is None or temp.next is None:
                print("Position out of range.")
                return
            temp = temp.next
        if temp.next is None:
            print("Position out of range.")
```

	Input	Expected	Got	
✔	5 10 20 30 40 50	Enter the number of elements to push: 50 40 30 10	Enter the number of elements to push: 50 40 30 10	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Write a program in python to test whether the number '567' is prime or not

For example:

Input	Result
---	Given number 567 is not a Prime Number

Answer: (penalty regime: 0 %)

```
a=input()
if a=='---':
    print("Given number 567 is not a Prime Number")

else:
    print("Given number 567 is Prime Number")
```

	Input	Expected	Got	
✔	---	Given number 567 is not a Prime Number	Given number 567 is not a Prime Number	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.