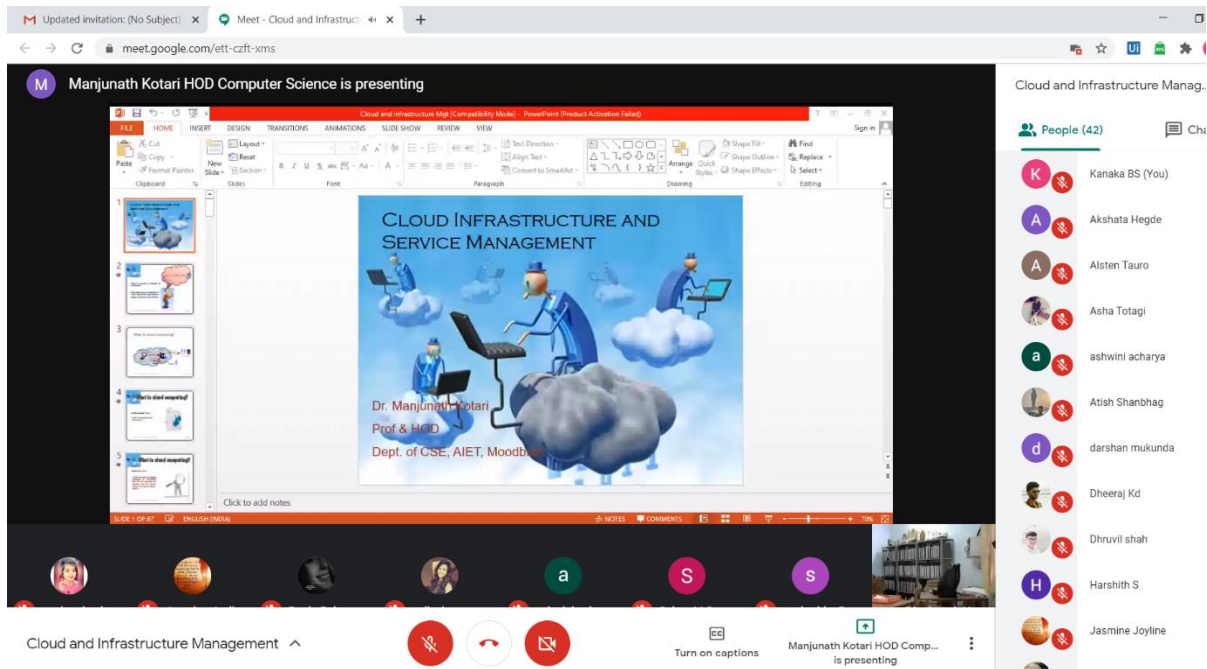


DAILY ONLINE ACTIVITIES SUMMARY

Date:	08-07-2020	Name:	Chetana H
Sem & Sec	6 th - A	USN:	4AL17CS021
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	Cloud Infrastructure and Service Management		
Certificate Provider	-	Duration	1.5hours
Coding Challenges			
Problem Statement: Python Program to Reverse a linked list			
Status: Solved			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/chetana-H/online-course2	
Uploaded the report in slack		yes	

ONLINE COURSE



ONLINE CODING

Python Program to Reverse a linked list

```
class Node:
```

```
    def __init__(self, data):
```

```
        self.data = data
```

```
        self.next = None
```

```
class LinkedList:
```

```
    def __init__(self):
```

```
        self.head = None
```

```
def reverse(self):  
    prev = None  
    current = self.head  
    while(current is not None):  
        next = current.next  
        current.next = prev  
        prev = current  
        current = next  
    self.head = prev
```

```
def push(self, new_data):  
    new_node = Node(new_data)  
    new_node.next = self.head  
    self.head = new_node
```

```
def printList(self):  
    temp = self.head  
    while(temp):  
        print(temp.data),  
        temp = temp.next  
  
l1 = LinkedList()  
l1.push(5)  
l1.push(25)  
l1.push(9)
```

```
l1.push(56)

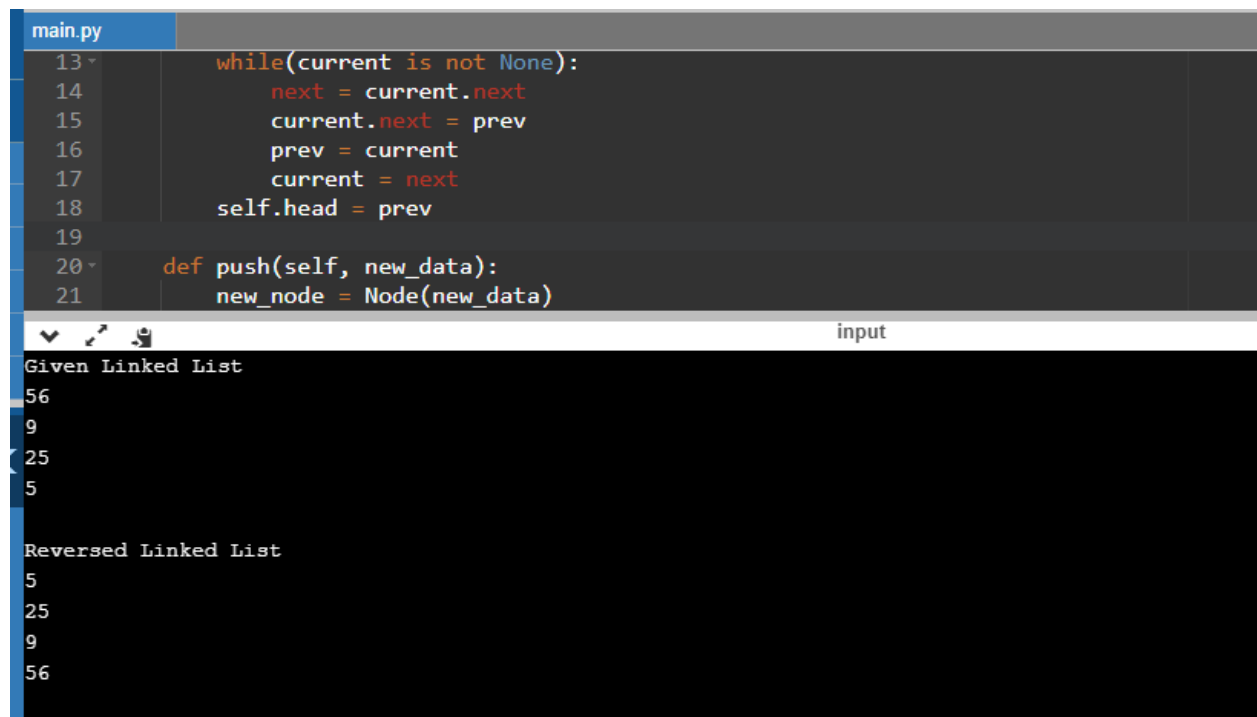
print("Given Linked List")

l1.printList()

l1.reverse()

print("\nReversed Linked List")

l1.printList()
```



The screenshot shows a Python IDE with a file named `main.py`. The code defines a `Node` class and a `LinkedList` class. The `LinkedList` class has methods `push`, `printList`, and `reverse`. The `reverse` method uses a while loop to reverse the linked list by changing the `next` pointer of each node to point to the previous node. The output of the program is displayed in the console, showing the original linked list and the reversed linked list.

```
main.py
13 while(current is not None):
14     next = current.next
15     current.next = prev
16     prev = current
17     current = next
18     self.head = prev
19
20 def push(self, new_data):
21     new_node = Node(new_data)

input
Given Linked List
56
9
25
5

Reversed Linked List
5
25
9
56
```