**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **12/07/2020** | | | | **Name:** | **Sheetal** | |
| **Sem & Sec** | **8 B** | | | | **USN:** | **4AL16CS091** | |
| **Online Test Summary** | | | | | | | |
| **Subject** | | **-** | | | | | |
| **Max. Marks** | | **-** | | **Score** | | **-** | |
| **Certification Course Summary(Internship)** | | | | | | | |
| **Task** | **BI Automation- Migrating dashborads from one BI tool to other. Data Model using python script** | | | | | | |
| **Company** | | | **Gain-Insights** | **Duration** | | | **8 hr** |
| **Coding Challenges** | | | | | | | |
| **Problem Statement:**  program to create a Circular Linked List of N nodes and count the number of nodes | | | | | | | |
| **Status:completed** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | [alvas-education-foundation](https://github.com/alvas-education-foundation)/ **[sheetal-shettigar](https://github.com/alvas-education-foundation/sheetal-shettigar)** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

ONLINE TEST

CODING CHALLENGE:

PROGRAM 1 :

#Represents the node of the list.

class Node:

def \_\_init\_\_(self,data):

self.data = data;

self.next = None;

class CreateList:

#Declaring head and tail pointer as null.

def \_\_init\_\_(self):

self.count = 0;

self.head = Node(None);

self.tail = Node(None);

self.head.next = self.tail;

self.tail.next = self.head;

#This function will add the new node at the end of the list.

def add(self,data):

newNode = Node(data);

#Checks if the list is empty.

if self.head.data is None:

#If list is empty, both head and tail would point to new node.

self.head = newNode;

self.tail = newNode;

newNode.next = self.head;

else:

#tail will point to new node.

self.tail.next = newNode;

#New node will become new tail.

self.tail = newNode;

#Since, it is circular linked list tail will point to head.

self.tail.next = self.head;

#This function will count the nodes of circular linked list

def countNodes(self):

current = self.head;

self.count=self.count+1;

while(current.next != self.head):

self.count=self.count+1;

current = current.next;

print("Count of nodes present in circular linked list: "),

print(self.count);

class CircularLinkedList:

cl = CreateList();

#Adds data to the list

cl.add(1);

cl.add(2);

cl.add(4);

cl.add(1);

cl.add(2);

cl.add(3);

#Displays all the nodes present in the list

cl.countNodes();