DAILY ONLINE ACTIVITIES SUMMARY

Date:	20-06-2020		Name:	SAFNAAZ		
Sem & Sec	8 th B		USN:	4AL16CS081		
Online Test Summary						
Subject -						
Max. Marks -			Score	-		
Certification Course Summary						
Course	Amazon	Amazon web service				
Certificate Provider		Aws	Duration		3 Hours	
Coding Challenges						
Problem Sta it in reverse or		Vrite a Java program to c	ereate a doubly	linked list	of n nodes and display	
Status: COI	MPLETED					
Uploaded the report in Github			YES			
If yes Repository name			Safnaazsheikh			
Uploaded ti	he report i	in slack	YES			

Certification Course Details:



Coding challenges online details:

Swapping 2 numbers using pointers

```
#include <stdio.h>
void swap(int *x,int *y)
{
    int t;
        t = *x;
        *x = *y;
        *y = t;
}
int main()
{
    int num1, num2;

    printf("Enter value of num1: ");
    scanf("%d", &num1);
    printf("Enter value of num2: ");
    scanf("%d", &num2);
    printf("Before Swapping: num1 is: %d, num2 is: %d\n", num1, num2);
```

```
swap(&num1,&num2);
  printf("After Swapping: num1 is: %d, num2 is:
%d\n",num1,num2);
  return 0;
}
```

PROGRAM2

```
Write a Java program to create a doubly linked list of n nodes and display it in reverse order
```

```
public class ReverseList {
    //Represent a node of the doubly linked list
    class Node{
        int data;
        Node previous;
        Node next;
        public Node(int data) {
            this.data = data;
        }
    }
    //Represent the head and tail of the doubly linked list
    Node head, tail = null;
    //addNode() will add a node to the list
    public void addNode(int data) {
        //Create a new node
        Node newNode = new Node(data);
        //If list is empty
        if(head == null) {
            //Both head and tail will point to newNode
            head = tail = newNode;
            //head's previous will point to null
            head.previous = null;
            //tail's next will point to null, as it is the last node of
the list
            tail.next = null;
        else {
            //newNode will be added after tail such that tail's next
will point to newNode
            tail.next = newNode;
            //newNode's previous will point to tail
            newNode.previous = tail;
            //newNode will become new tail
            tail = newNode;
            //As it is last node, tail's next will point to null
            tail.next = null;
        }
    }
```

```
//reverse() will reverse the doubly linked list
   public void reverse() {
        //Node current will point to head
       Node current = head, temp = null;
        //Swap the previous and next pointers of each node to reverse
the direction of the list
        while(current != null) {
            temp = current.next;
            current.next = current.previous;
            current.previous = temp;
            current = current.previous;
        //Swap the head and tail pointers.
        temp = head;
       head = tail;
        tail = temp;
    }
    //display() will print out the elements of the list
   public void display() {
        //Node current will point to head
        Node current = head;
        if(head == null) {
            System.out.println("List is empty");
            return;
        }
        while(current != null) {
            //Prints each node by incrementing the pointer.
            System.out.print(current.data + " ");
            current = current.next;
        }
    }
   public static void main(String[] args) {
        ReverseList dList = new ReverseList();
        //Add nodes to the list
        dList.addNode(1);
        dList.addNode(2);
        dList.addNode(3);
        dList.addNode(4);
        dList.addNode(5);
        System.out.println("Original List: ");
        dList.display();
        //Reverse the given list
        dList.reverse();
        //Displays the reversed list
        System.out.println("\nReversed List: ");
        dList.display();
    }
```