DAILY ONLINE ACTIVITIES SUMMARY

Date:	20- 06- 2	20- 06- 2020		Akshata Shetty		
Sem & Sec	8 th sem B sec		USN:	4AL16CS092		
Online Test Summary						
Subject	-	-				
Max. Marks	Max. Marks -		Score	-		
Certification Course Summary						
Course	AWS machine learning specialty					
Certificate Provider		AWS	Duration		4.5 hrs	
Coding Challenges						
Problem Statement- : 1.Java program to create a doubly linked list of n nodes and display it in reverse order 2.Write a C Program to rotate a Matrix by 90 Degree in Clockwise or Anticlockwise Direction 3. Swapping 2 numbers using pointers						
Status: completed						
Uploaded the report in Github			yes			
If yes Repository name			Akshata			
Uploaded the report in slack			yes			

Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)



Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Coding was given and it was uploaded for github and slack

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;
```

Write a C Program to rotate a Matrix by 90 Degree in Clockwise or Anticlockwise Direction

```
#include <stdio.h>
int main()
int c,l=1,n;
 printf("Enter size of matrix (NxN): ");
 scanf("%d",&n);
 int arr[n][n];
 printf("\nEnter matrix elements:\n");
 for(int i=0;i<n;i++)
   for(int j=0;j<n;j++)
      scanf("%d",&arr[i][j]);
}
 printf("\ngiven matrix elements:\n");
 for(int i=0;i<n;i++)
   for(int j=0;j<n;j++)
      printf("%d ",arr[i][j]);
   printf("\n");
while(I)
  printf("MENU\n");
  printf("1.clockwise\n");
  printf("2.Anticlockwise\n");
  printf("3.display\n");
  printf("4.exit\n");
  printf("enter choice\n");
  scanf("%d",&c);
     if(c==1){
      for (int i=0;i< n/2;i++)
  for (int j=i;j< n-i-1;j++)
       int temp=arr[i][j];
       arr[i][j]=arr[n- 1- j][i];
       arr[n- 1- j][i]=arr[n- 1- i][n- 1- j];
```

```
arr[n- 1- i][n- 1- j]=arr[j][n- 1- i];
       arr[j][n- 1- i]=temp;
}
  else if(c==2){
       for(int i=0;i< n/2;i++)
   for(int j=i;j<n- i- 1;j++)
      int temp=arr[i][j];
      arr[i][j]=arr[j][n- i- 1];
      arr[j][n- i- 1]=arr[n- i- 1][n- j- 1];
     arr[n- i- 1][n- j- 1]=arr[n- j- 1][i];
     arr[n- j- 1][i]=temp;
  }
}
  else if(c==3)
       printf("\nMatrix after rotating 90 degree:\n");
 for(int i=0;i<n;i++)
   for(int j=0;j<n;j++)
   {
      printf("%d ",arr[i][j]);
   printf("\n");
   else I=0;
  }
```

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();
  }
Output:
```