DAILY ONLINE ACTIVITIES SUMMARY

Date:	**22/05/2020**	**Name:**	**Mithun Kumar D**
Sem & Sec	**VIII Semester & A section**	**USN:**	**4AL16CS053**

Online Test Summary

Subject	**BDA**		
Max. Marks	**40**	**Score**	**30**

Certification Course Summary

Course	**Amazon Elastic Kubernetes Service (KEB) Primer**		
Certificate Provider	**AWS**	**Duration**	**(60 mins)**

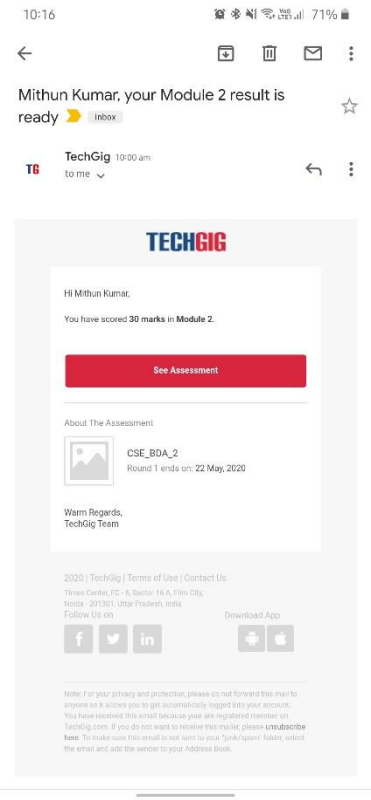
Coding Challenges

Problem Statement: 1) C Program implement various operations of Singly Linked List Stack 2.Given an array containing n distinct numbers taken from 0, 1, 2, ..., n, find the one that is missing from the array.

Status: COMPLETED

Uploaded the report in Github	**YES**
If yes Repository name	**mkd18**
Uploaded the report in slack	**YES**

Online Test Details:



Certification Course Details:

Coding Challenges Details:

C Program to implement various operations of Singly Linked List Stack

```
#include <stdio.h>
#include <stdlib.h>

struct node
{
    int info;
    struct node *ptr;
}*top,*top1,*temp;

void push(int data);
void pop();
void display();
void create();

int count = 0;

void main()
{
    int no, ch, e;

    printf("\n 1 - Push");
```

```
printf("\n 2 - Pop");
printf("\n 3 - Display");
printf("\n 4 - Destroy");
printf("\n 5 - Exit");

create();

while (1)
{
    printf("\n Enter choice : ");
    scanf("%d", &ch);

    switch (ch)
    {
    case 1:
        printf("Enter data : ");
        scanf("%d", &no);
        push(no);
        break;
    case 2:
        pop();
        break;
    case 3:
```

```
            display();
            break;
        case 4:
                        destroy();
                            break;
        case 5:
            exit(0);
        default :
            printf("Invalid Input");
            break;
        }
    }
}



void create()
{
    top = NULL;
}

void push(int data)
{
    if (top == NULL)
```

```
    {
        top =(struct node *)malloc(1*sizeof(struct node)); top-
        >ptr = NULL;
        top->info = data;
    }
    else
    {
        temp =(struct node *)malloc(1*sizeof(struct node)); temp-
        >ptr = top;
        temp->info = data;
        top = temp;
    }
    count++;
}



void display()
{
    top1 = top;

    if (top1 == NULL)
    {
        printf("Stack is empty");
```

```
        return;
    }

    while (top1 != NULL)
    {
        printf("%d\n", top1->info);
        top1 = top1->ptr;
    }
 }

void pop()
{
    top1 = top;

    if (top1 == NULL)
    {
        printf("\n Error : Not Able to pop from empty stack"); return;
    }
    else
        top1 = top1->ptr;
    printf("\n Popped value : %d", top->info);
    free(top);
```

```
    top = top1;
    count--;
}


int topelement()
{
    return(top->info);
}


void empty()
{
    if (top == NULL)
        printf("\n Stack is empty"); else
        printf("\n Stack is not empty with %d elements", count);
}


void destroy()
{
    top1 = top;
```

```
    while (top1 != NULL)
    {
        top1 = top->ptr;
        free(top);
        top = top1;
        top1 = top1->ptr;
    }
    free(top1);
    top = NULL;

    printf("\n All stack elements destroyed");
    count = 0;
}
```

Program(Given an array containing n distinct numbers taken from 0, 1, 2, ..., n, find the one that is missing from the array)

```
array = list(map(int, input("Enter array : ").split()))
print("Missing Number is :", sum(list(range(max(array)+1))) - sum(array))
```