DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20-05-2020**	**Name:**	**Anvitha Poojary**
Sem & Sec	**6A**	**USN:**	**4AL17CS008**

Online Test Summary

Subject	**SSCD**		
Max. Marks	**30**	**Score**	**24**

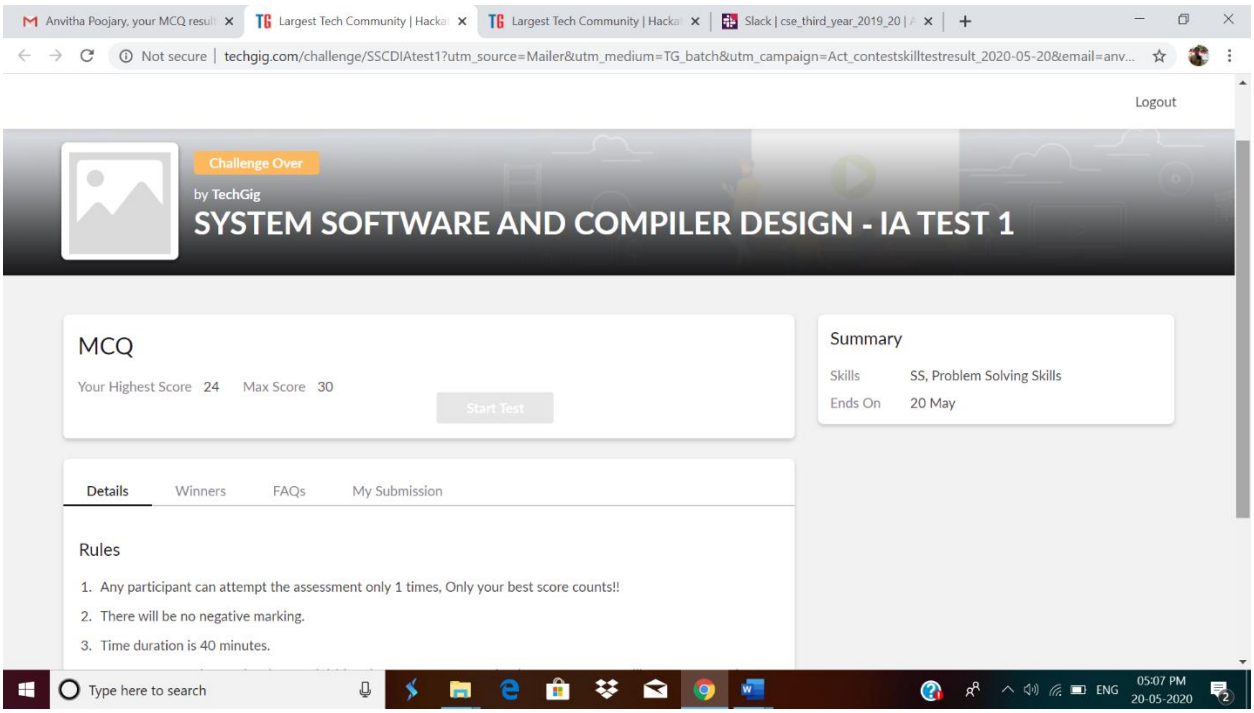
Certification Course Summary

Course	**Front end development-HTML**		
Certificate Provider	**greatlearning**	**Duration**	**3:30hr**

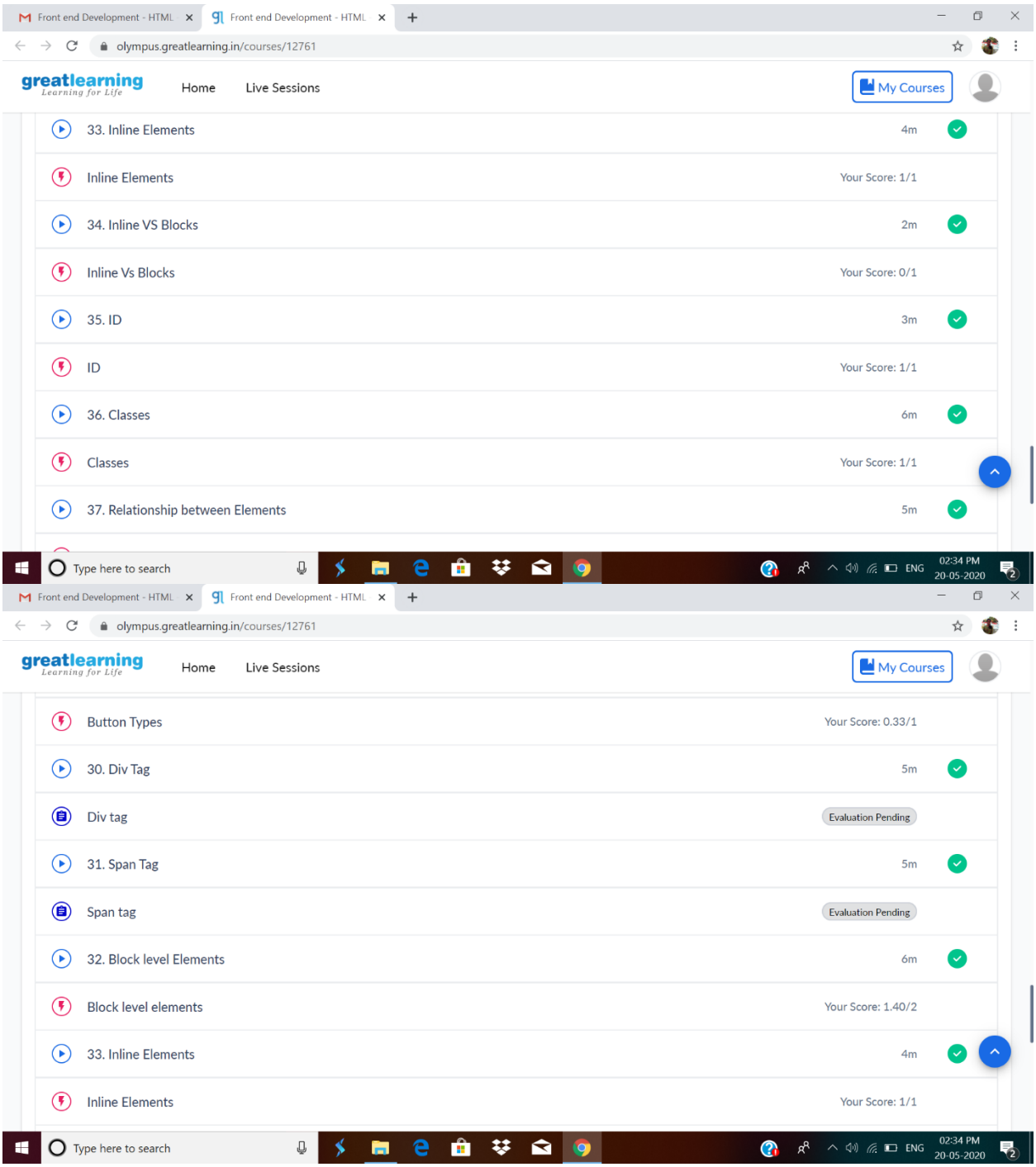
Coding Challenges

Problem Statement: Write Python Program to Reverse a Given Number	
Status: completed	
Uploaded the report in Github	**yes**
If yes Repository name	**REPORT3**
Uploaded the report in slack	**yes**

Online test details:



Certification course details:



Coding challenges details:

1. Write a C Program to Reverse a Linked List in groups of given size.

Test Case 1:
If a linked listis: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8
The value of size k is 2
Then the linked list looks like: 2 → 1 → 4 → 3 → 6 → 5 → 8 → 7

Test Case 2:
If a linked listis: 1 → 2 → 3 → 4 → 5 → 6 → 7 → 8
The value of size k is 3
Then the linked list looks like: 3 → 2 → 1 → 6 → 5 → 4 → 8 → 7

```
#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

typedef struct node

{

        int data;

        struct node *next;

}node;

void reverse(node *head)

{

if(head == NULL)

        return;

if(head -> next == NULL)

        return;

reverse(head->next);

head->next->next = head;

head->next = NULL;

}
```

```
node *swap_in_a_group(node *start , int k)
{
        node *p , *q ,*new_start , *temp;
        int cnt;
        p = start;
        cnt = 0;
        while(cnt != k-1)
        {
                if(p->next == NULL)
                        {
                        return start;
                        }
                p = p->next;
                cnt++;
        }
        new_start = p;
        q = new_start;
        while(1)
        {
                p = start;
                temp = q->next;
                if(temp == NULL)
```

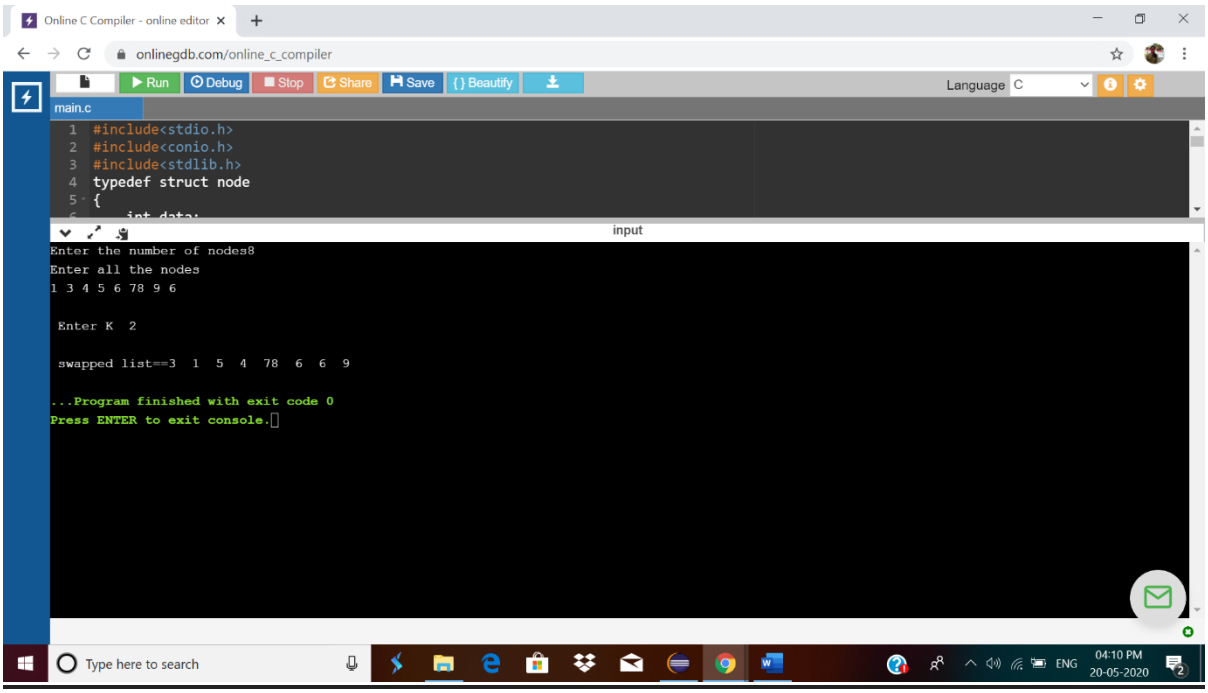
```
        {
                reverse(p);
                return new_start;
        }
        q->next = NULL;
        q = temp;
        start = temp;
        cnt = 0;
        while(cnt != k-1)
        {
                if(temp->next == NULL)
                        {
                                reverse(p);
                                p->next = q;
                                return new_start;
                        }
                temp = temp->next;
                cnt++;
        }
        reverse(p);
        p->next = temp;
        q = temp;
}
```

```
return new_start;
}
int main()
{
        int a , i , n , cnt , k=4 , flag = 1;
        node *p,*q,*start;
        printf("Enter the number of nodes");
        scanf("%d",&n);
printf("Enter all the nodes  \n");
        p = (node*)malloc(sizeof(node));
        scanf("%d",&a);
        p->data = a;
        p->next = NULL;
        start = p;

        for(i=1;i<n;i++)
                {
                        q = (node*)malloc(sizeof(node));
                        scanf("%d",&a);
                        q->data = a;
                        q->next = NULL;
                        p->next = q;
                        p = p->next;
```

```
            }
        printf("\n Enter K  ");
        scanf("%d",&k);
        printf("\n swapped list==");
        p = swap_in_a_group(start , k);
        while(p!=NULL)
        {
            printf("%d  ",p->data);
            p = p->next;
        }
return 0;
}
```

Output:



#Write Python Program to Reverse a Given Number

```
Number = int(input("Please Enter any Number: "))

Reverse = 0

while(Number >0):

    Reminder = Number %10

    Reverse = (Reverse *10) + Reminder

    Number = Number //10

print("\n Reverse of entered number is = %d" %Reverse)
```

output:

5. Python Program to Exchange the Values of Two Numbers using ^ (exclusive or operator)

```
x=int(input("Enter value of x: "))

y=int(input("Enter value of y: "))

x = x ^ y;
```

y = x ^ y;

x = x ^ y;

print ("After Swapping: x = ", x, " y =", y)

Output: