DAILY ONLINE ACTIVITIES SUMMARY

Date:	20/5/2020	Name:	Sumana
Sem & Sec	8th Sem	USN:	4AL16CS107

Online Test Summary			
Subject	Internet of Things		
Max. Marks	30	Score	20

Certification Course Summary			
Course	Introduction to Ethical Hacking		
Certificate Provider	greatlearning.in	Duration	6 hrs

Coding Challenges
Problem Statement: Write a C Program to Reverse a Linked List in groups of given size.
Status: Completed

Uploaded the report in Github	Yes
If yes Repository name	Alvas-education-foundation/Sumana
Uploaded the report in slack	yes

Online Test Details:
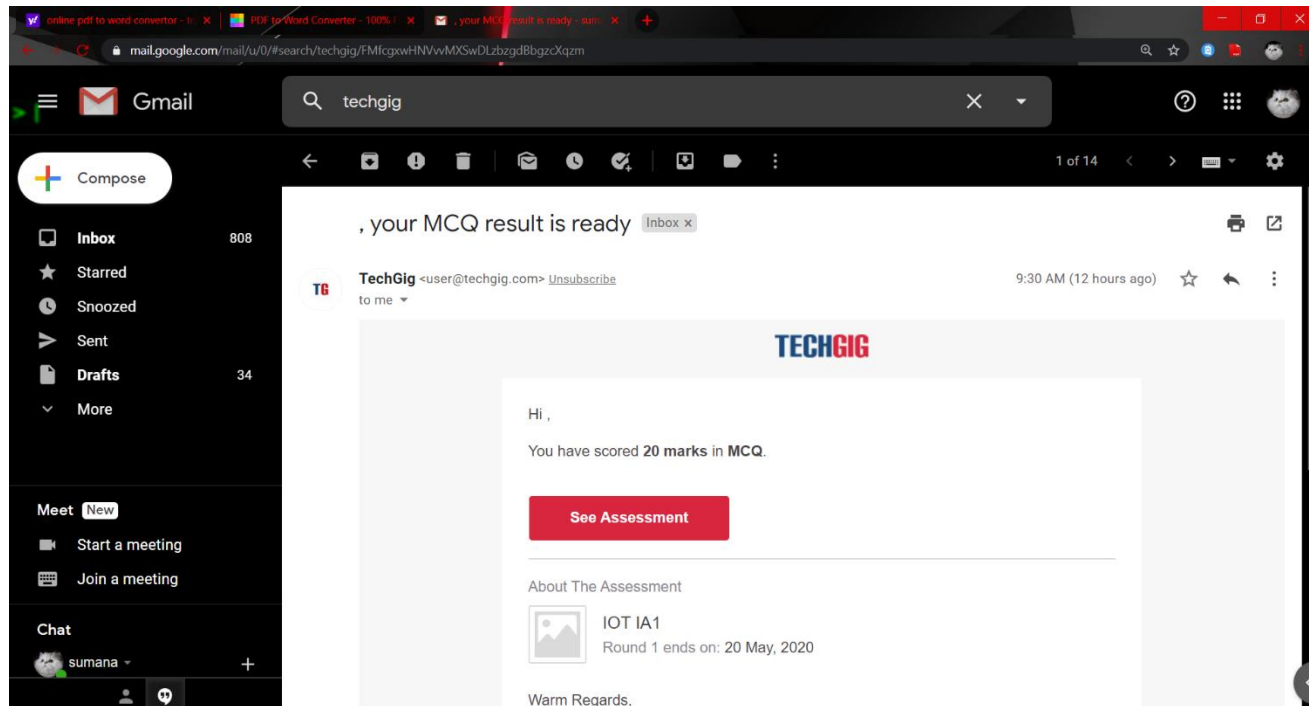
Certification Course Details:
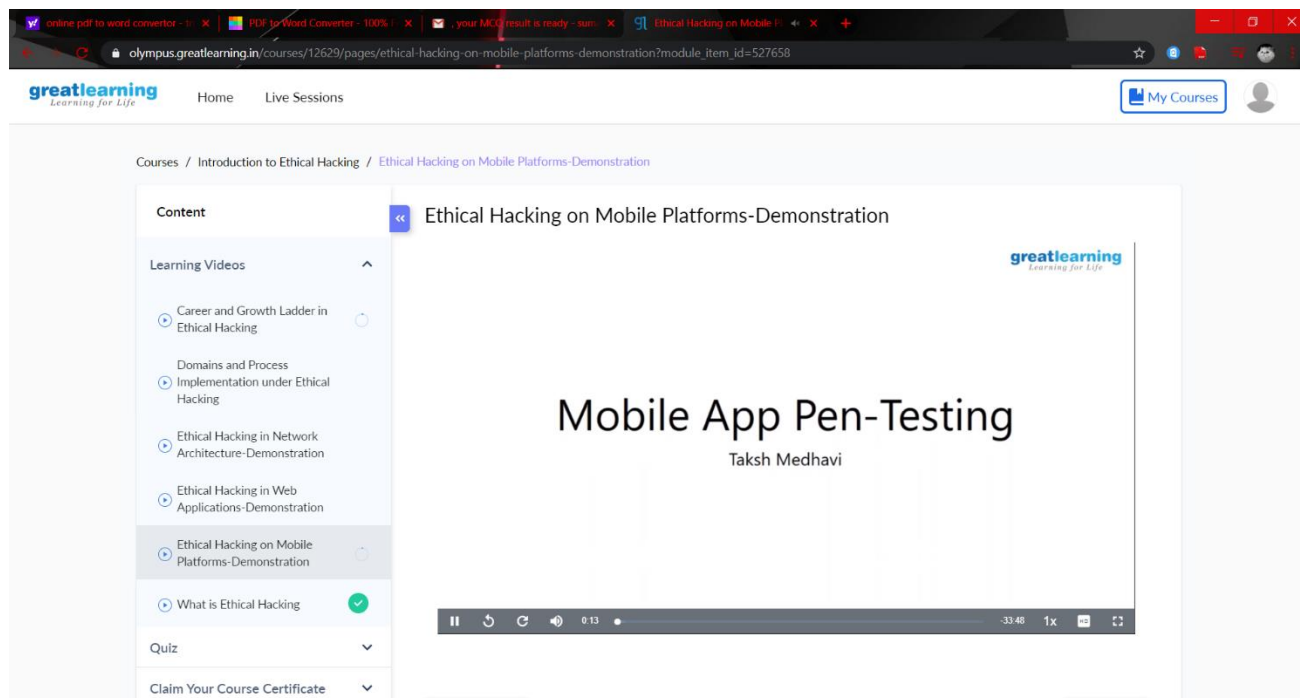
Coding Challenges Details:

Program 1:

```c
struct Node
{
                int data;
                struct Node* next;
};
```

pointer to the new head node. /

```c
struct Node reverse (struct Node head, int k)
{
                struct Node current = head;
                struct Node next = NULL;
                struct Node prev = NULL;
                int count = 0;

                while (current != NULL && count < k)
                {
                    next = current->next;
                    current->next = prev;
                    prev = current;
                    current = next;
                    count++;
                }
```

```c
                if (next != NULL)

                        head->next = reverse(next, k);


                return prev;


}


void push(struct Node** head_ref, int new_data)

{
                struct Node* new_node =(struct Node*)
malloc(sizeof(struct Node));


                new_node->data = new_data;


                new_node->next = (*head_ref);


                (*head_ref)    = new_node;


}


void printList(struct Node *node)

{
                while (node != NULL)

                {
```

```c
        printf("%d ", node->data);

        node = node->next;

    }

}


int main(void)

{

    struct Node* head = NULL;

    push(&head, 8);

    push(&head, 7);

    push(&head, 6);

    push(&head, 5);

    push(&head, 4);

    push(&head, 3);

    push(&head, 2);

    push(&head, 1);


    printf("\nGiven linked list \n");

    printList(head);

    head = reverse(head, 2);


    printf("\nReversed Linked list \n");

    printList(head);


    return(0);
```

}