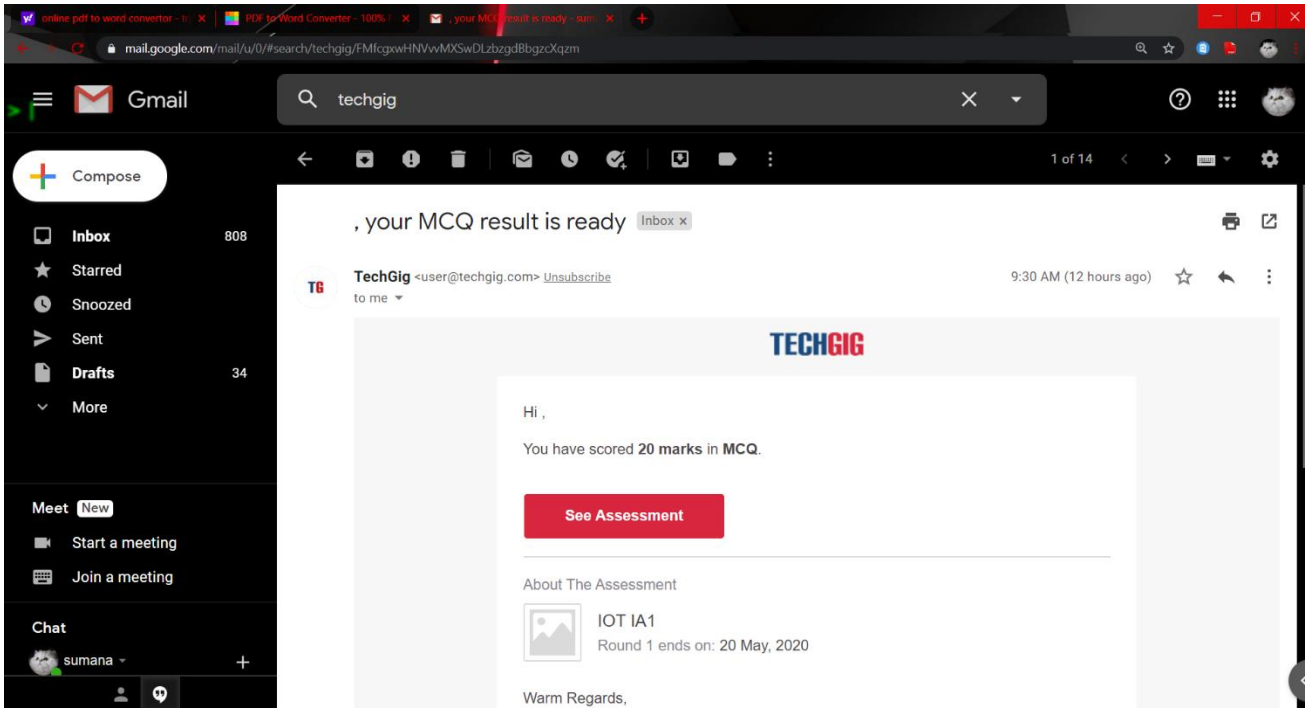
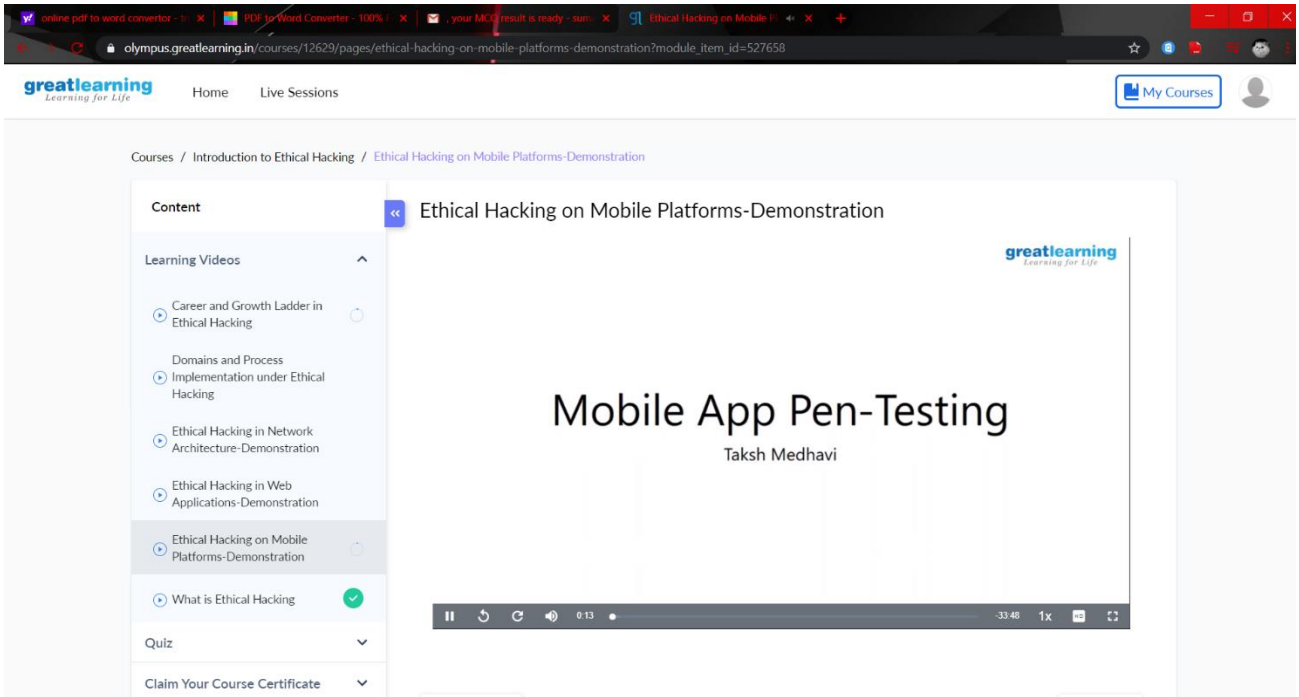
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20/5/2020**	**Name:**	**Sumana**
Sem & Sec	**8th Sem B**	**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:

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

pointer to the new head node. /
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++;
                    }
```

```
                    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)
                    {
```

```
        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);
```

```
}
```