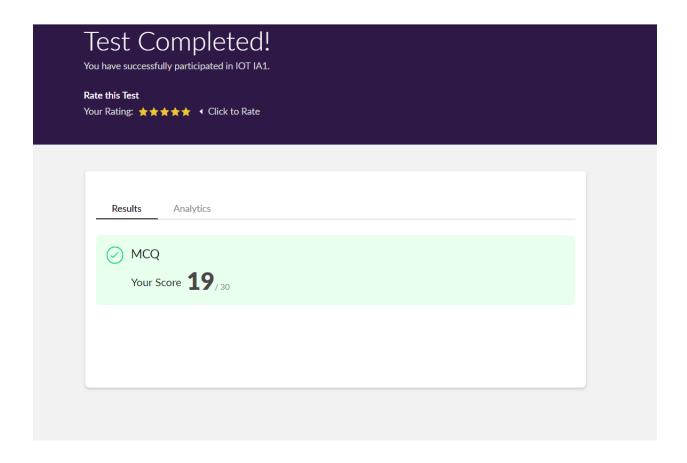
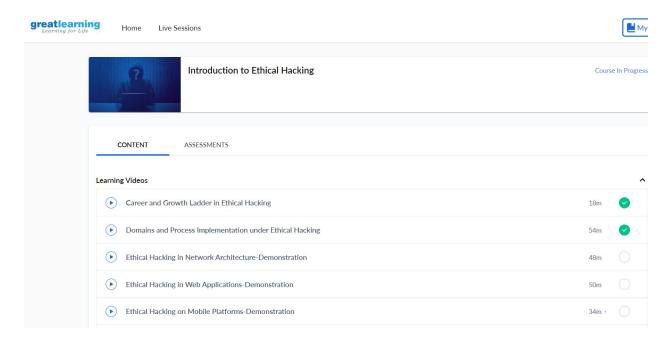
DAILY ONLINE ACTIVITIES SUMMARY

Date:	20-5-2020		Name:	Nagashree D	
Sem & Sec	8 th ,A		USN:	4AL16CS055	
Online Test Summary					
Subject					
Max. Marks	xs 30		Score	19	
Certification Course Summary					
Course Introduction to ethical hacking					
Certificate Provider		Great Learner Academy	Duration		6Hrs
Coding Challenges					
Problem Statement: Write a C Program to Reverse a Linked List in groups of given size					
Status:Solved					
Uploaded th	e report i	n Github	Yes		
If yes Repository name			Nagashreed		
Uploaded th	e report i	n slack	Yes		

Online test Details



Certification Course Details:



Domains and Process Implementation under Ethical Hacking

- Web Application Domain
- Mobile
- Network Architecture Domain

Hacking Methodology

- Web Footprinting Gathering Information
- Vulnerability Scanners w3af, Acunetix
- Identity Entry Points and Attack Surface

Coding Challenges:

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

```
Test Case 1:
If a linked listis: 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8
The value of size k is 2
Then the linked list looks like: 2 \rightarrow 1 \rightarrow 4 \rightarrow 3 \rightarrow 6 \rightarrow 5 \rightarrow 8 \rightarrow 7
Test Case 2:
If a linked listis: 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6 \rightarrow 7 \rightarrow 8
The value of size k is 3
Then the linked list looks like: 3 \rightarrow 2 \rightarrow 1 \rightarrow 6 \rightarrow 5 \rightarrow 4 \rightarrow 8 \rightarrow 7
Code:
#include<stdio.h>
#include<stdlib.h>
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);
```