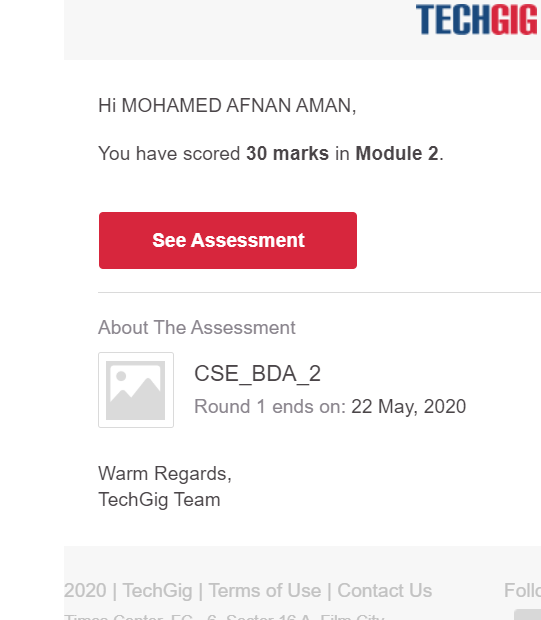
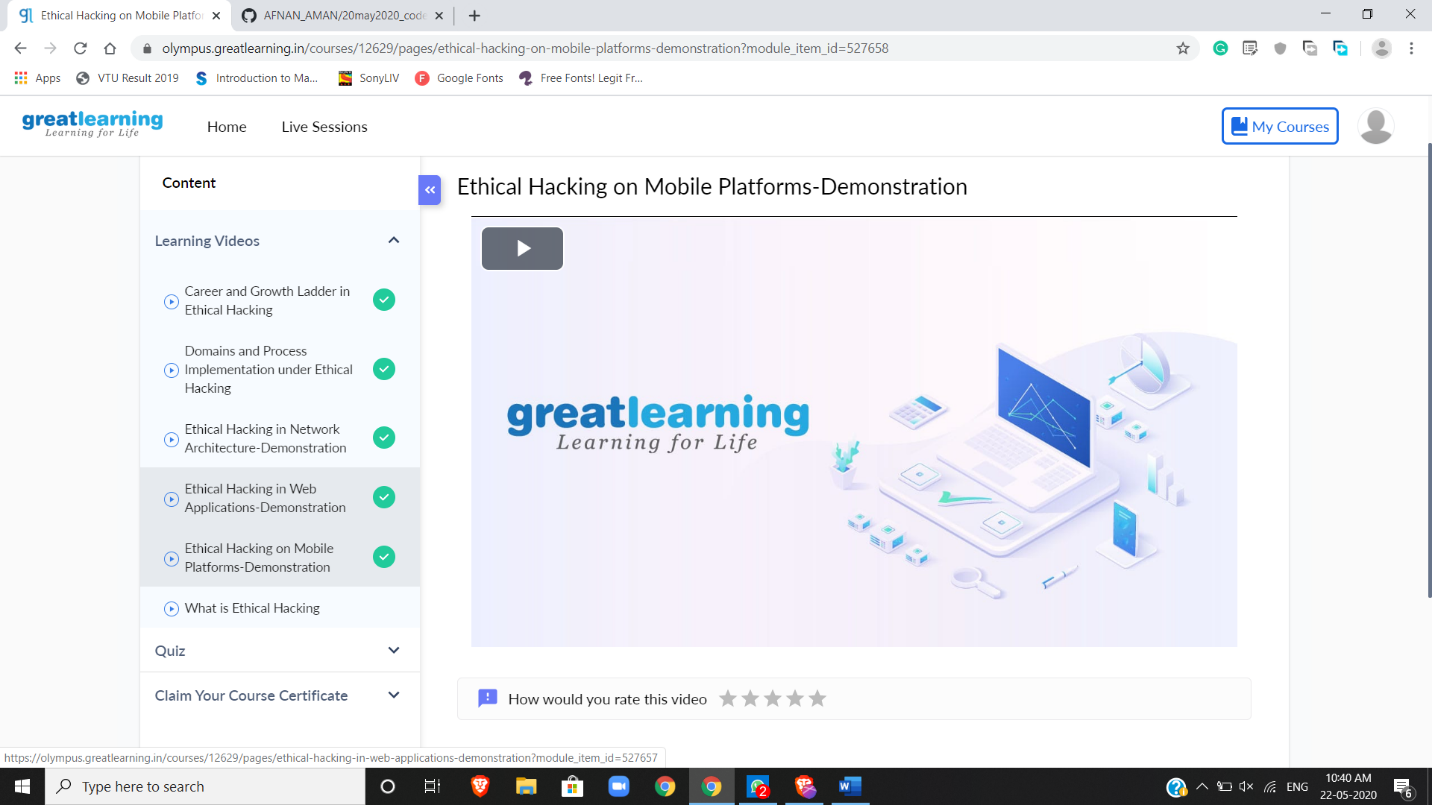
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **22-05-2020** | | | | | **Name:** | **MOHAMED AFNAN AMAN** | |
| **Sem & Sec** | **8th , A sec** | | | | | **USN:** | **4AL15CS058** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **BDA** | | | | | | |
| **Max. Marks** | | **40** | | **Score** | | | **30** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **INTRODUCTION TO ETHICAL HACKING** | | | | | | | |
| **Certificate Provider** | | | **GREATLEARNING** | | **Duration** | | | **32min** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement: Implementation of various operations in the singly linked list stack** | | | | | | | | |
| **Status: solved** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **AFNAN\_AMAN** | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

Online Test Details: (Attach the snapshot and briefly write the report for the same) 

Certification Course Details: 

Coding Challenges Details:

|  |
| --- |
| #include<stdio.h> |
|  | #include <stdlib.h> |
|  |  |
|  | struct node |
|  | { |
|  | int info; |
|  | struct node \*ptr; |
|  | }\*top,\*top1,\*temp; |
|  |  |
|  | int topelement(); |
|  | void push(int data); |
|  | void pop(); |
|  | void empty(); |
|  | void display(); |
|  | void destroy(); |
|  | void stack\_count(); |
|  | void create(); |
|  | int count = 0; |
|  | void main() |
|  | { |
|  | int no, ch, e; |
|  | while (1) |
|  | { |
|  | printf("\n 1 - Push\t\t2 - Pop"); |
|  | printf("\n 3 - Top\t\t4 - Check if Stack Empty"); |
|  | printf("\n 5 - Exit\t\t6 - Dipslay"); |
|  | printf("\n 7 - Stack Count\t8 - Destroy stack"); |
|  | printf("\n----------------------------------------------------------\n"); |
|  | create(); |
|  | printf("\nEnter choice : "); |
|  | scanf("%d", &ch); |
|  |  |
|  | switch (ch) |
|  | { |
|  | case 1: |
|  | printf("Enter data : "); |
|  | scanf("%d", &no); |
|  | push(no); |
|  | break; |
|  | case 2: |
|  | pop(); |
|  | break; |
|  | case 3: |
|  | if (top == NULL) |
|  | printf("No elements in stack"); |
|  | else |
|  | { |
|  | e = topelement(); |
|  | printf("\n Top element : %d", e); |
|  | } |
|  | printf("\n----------------------------------------------------------\n"); |
|  | break; |
|  | case 4: |
|  | empty(); |
|  | break; |
|  | case 5: |
|  | exit(0); |
|  | case 6: |
|  | display(); |
|  | break; |
|  | case 7: |
|  | stack\_count(); |
|  | break; |
|  | case 8: |
|  | destroy(); |
|  | break; |
|  | default : |
|  | printf(" Wrong choice, Please enter correct choice "); |
|  | printf("\n----------------------------------------------------------\n"); |
|  | break; |
|  | } |
|  | } |
|  | } |
|  | void create() |
|  | { |
|  | top = NULL; |
|  | } |
|  | void stack\_count() |
|  | { |
|  | printf("\n No. of elements in stack : %d", count); |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |
|  | 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++; |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |
|  | void display() |
|  | { |
|  | top1 = top; |
|  |  |
|  | if (top1 == NULL) |
|  | { |
|  | printf("Stack is empty"); |
|  | printf("\n----------------------------------------------------------\n"); |
|  | return; |
|  | } |
|  |  |
|  | while (top1 != NULL) |
|  | { |
|  | printf("%d ", top1->info); |
|  | top1 = top1->ptr; |
|  | } |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |
|  | void pop() |
|  | { |
|  | top1 = top; |
|  |  |
|  | if (top1 == NULL) |
|  | { |
|  | printf("\n Error : Trying to pop from empty stack"); |
|  | return; |
|  | } |
|  | else |
|  | top1 = top1->ptr; |
|  | printf("\n Popped value : %d", top->info); |
|  | free(top); |
|  | top = top1; |
|  | count--; |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |
|  | 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); |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |
|  | 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; |
|  | printf("\n----------------------------------------------------------\n"); |
|  | } |

THANK YOU…