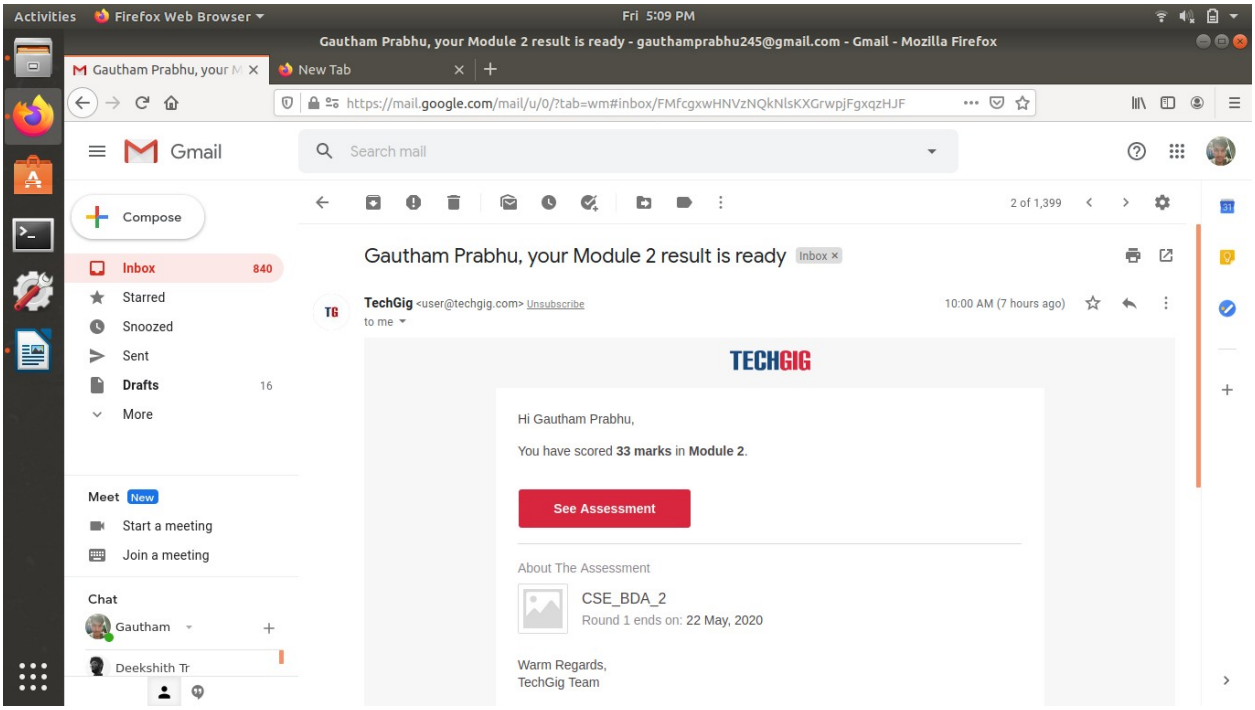
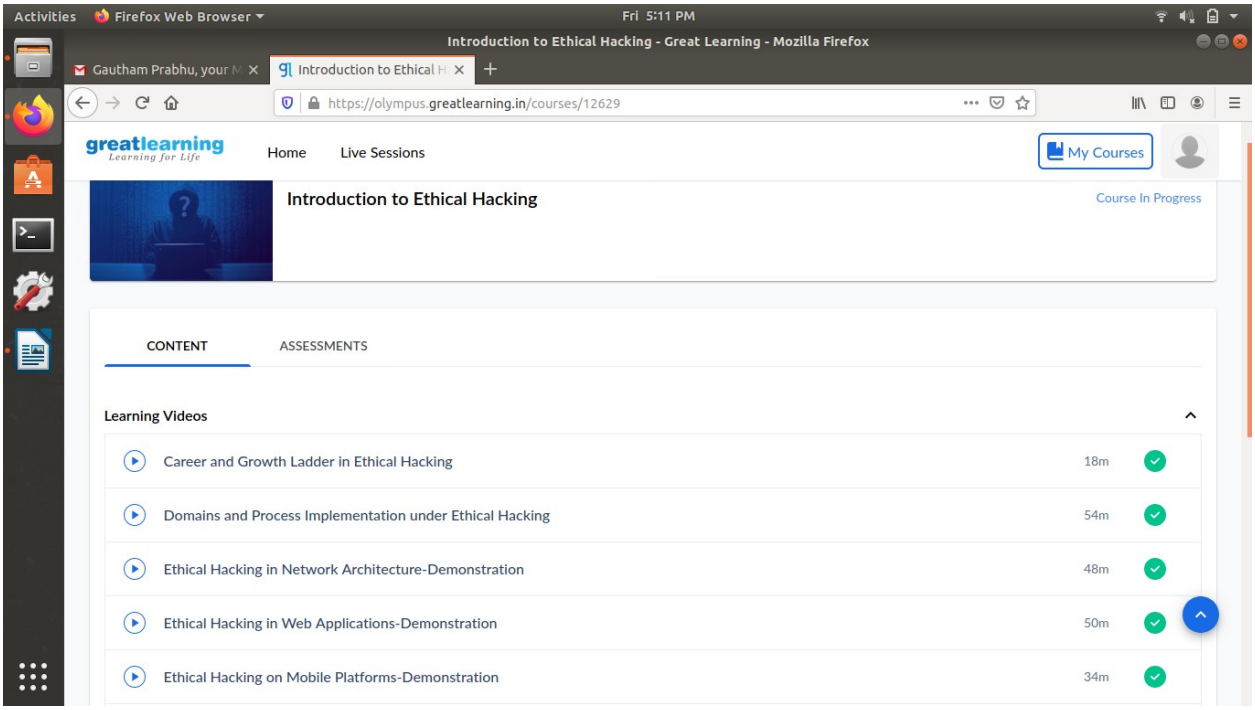
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**22/5/2020**	**Name:**	**Gautham Prabhu**
Sem & Sec	**8th Sem**	**USN:**	**4AL16CS035**
Online Test Summary			
Subject	**Big Data Analytics**		
Max. Marks	**40**	**Score**	**33**
Certification Course Summary			
Course	**Introduction to Ethical Hacking**		
Certificate Provider	**greatlearning.in**	**Duration**	**6 hrs**
Coding Challenges			
Problem Statement: 1)Write a C Program to implement various operations of Singly Linked List Stack			
Status: Completed			
Uploaded the report in Github	**Yes**		
If yes Repository name	**Daily_report**		
Uploaded the report in slack	**yes**		

Online Test Details:



Certification Course Details:



Coding Challenges Details:

Program 1:

```
#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");
}
```