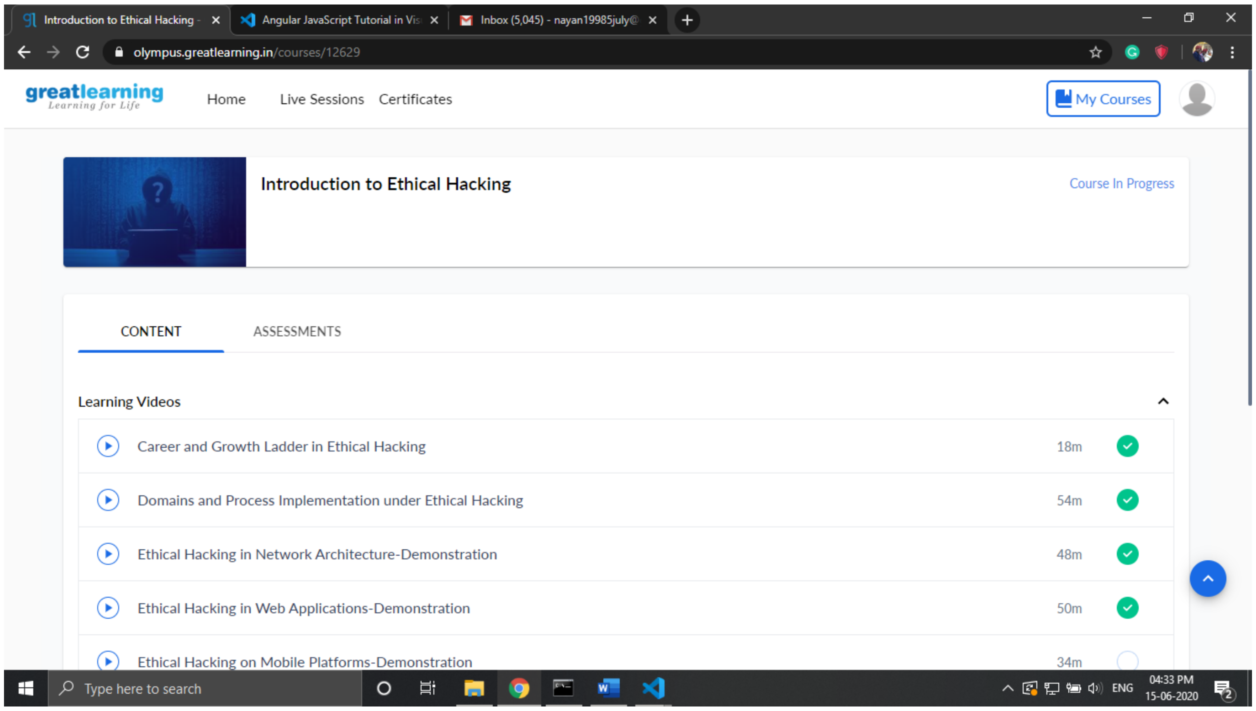
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**15-06-2020**	**Name:**	**Nayan. P. Joshi**
Sem & Sec	**8th Sem A**	**USN:**	**4AL16CS058**
Online Test Summary			
Subject	**System modeling and simulation**		
Max. Marks	**60**	**Score**	**No mail received**
Certification Course Summary			
Course	**Introduction to Ethical Hacking**		
Certificate Provider	**Great learning academy**	**Duration**	**8hrs**
Coding Challenges			
Problem Statement: Write a C Program to perform the following operations on Triply Linked List			
Status: Solved			
Uploaded the report in GitHub	**yes**		
If yes Repository name	**nayan1998**		
Uploaded the report in slack	**yes**		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Introduction to Ethical Hacking

Course In Progress

CONTENT | ASSESSMENTS

Learning Videos

Career and Growth Ladder in Ethical Hacking	18m	✓
Domains and Process Implementation under Ethical Hacking	54m	✓
Ethical Hacking in Network Architecture-Demonstration	48m	✓
Ethical Hacking in Web Applications-Demonstration	50m	✓
Ethical Hacking on Mobile Platforms-Demonstration	34m	

Write a C Program to perform the following operations on Triply Linked List

```
#include<stdlib.h>
#include <stdio.h>

void create();
void display();
void insert_begin();
void insert_end();
void insert_pos();
void delete_begin();
void delete_end();
void delete_pos();


struct node
{
        int info;
        struct node *next;
};
struct node *start=NULL;
int main()
{
        int choice;
        while(1){

                printf("\n              MENU                            \n");
                printf("\n 1.Create     \n");
                printf("\n 2.Display    \n");
                printf("\n 3.Insert at the beginning    \n");
                printf("\n 4.Insert at the end  \n");
                printf("\n 5.Insert at specified position       \n");
                printf("\n 6.Delete from beginning     \ n");
                printf("\n 7.Delete from the end       \n");
                printf("\n 8.Delete from specified position     n");
printf("\n 9.Exit       \n");
printf("\n--------------------------------------\n");
printf("\Enter your choice:\t");
scanf("%d",&choice);
switch(choice)
{
        case 1:
                        create();
                        break;
        case 2:
                        display();
                        break;
        case 3:
                        insert_begin();
                        break;
        case 4:
                        insert_end();
                        break;
        case 5:
                        insert_pos();
                        break;
        case 6:
                        delete_begin();
                        break;
        case 7:
                        delete_end();
                        break;
        case 8:
                        delete_pos();
                        break;

        case 9:
                        exit(0);
                        break;

        default:
```

```
                                        printf("n Wrong Choice:n");
                                        break;
                        }
                }
                return 0;
        }
        void create()
        {
                struct node *temp,*ptr;
                temp=(struct node *)malloc(sizeof(struct node));
                if(temp==NULL)
                {
                        printf("nOut of Memory Space:n");
                        exit(0);
                }
                printf("nEnter the data value for the node:t");
                scanf("%d",&temp->info);
                temp->next=NULL;
                if(start==NULL)
                {
                        start=temp;
                }
                else
                {
                        ptr=start;
                        while(ptr->next!=NULL)
                        {
                                ptr=ptr->next;
                        }
                        ptr->next=temp;
                }
        }
        void display()
        {
                struct node *ptr;
                if(start==NULL)
                {
                        printf("nList is empty:n");
                        return;
                }
                else
                {
                        ptr=start;
                        printf("nThe List elements are:n");
                        while(ptr!=NULL)
                        {
                                printf("%dt",ptr->info );
                                ptr=ptr->next ;
                        }
                }
        }
        void insert_begin()
        {
                struct node *temp;
                temp=(struct node *)malloc(sizeof(struct node));
                if(temp==NULL)
                {
                        printf("nOut of Memory Space:n");
                        return;
                }
                printf("nEnter the data value for the node:t" );
                scanf("%d",&temp->info);
                temp->next =NULL;
                if(start==NULL)
                {
                        start=temp;
                }
                else
                {
                        temp->next=start;
                        start=temp;
                }
```

```
}
void insert_end()
{
        struct node *temp,*ptr;
        temp=(struct node *)malloc(sizeof(struct node));
        if(temp==NULL)
        {
                printf("nOut of Memory Space:n");
                return;
        }
        printf("nEnter the data value for the node:t" );
        scanf("%d",&temp->info );
        temp->next =NULL;
        if(start==NULL)
        {
                start=temp;
        }
        else
        {
                ptr=start;
                while(ptr->next !=NULL)
                {
                        ptr=ptr->next ;
                }
                ptr->next =temp;
        }
}
void insert_pos()
{
        struct node *ptr,*temp;
        int i,pos;
        temp=(struct node *)malloc(sizeof(struct node));
        if(temp==NULL)
        {
                printf("nOut of Memory Space:n");
                return;
        }
        printf("nEnter the position for the new node to be inserted:t");
        scanf("%d",&pos);
        printf("nEnter the data value of the node:t");
        scanf("%d",&temp->info) ;

        temp->next=NULL;
        if(pos==0)
        {
                temp->next=start;
                start=temp;
        }
        else
        {
                for(i=0,ptr=start;i<pos-1;i++) { ptr=ptr->next;
                        if(ptr==NULL)
                        {
                                printf("nPosition not found:[Handle with care]n");
                                return;
                        }
                }
                temp->next =ptr->next ;
                ptr->next=temp;
        }
}
void delete_begin()
{
        struct node *ptr;
        if(ptr==NULL)
        {
                printf("nList is Empty:n");
                return;
        }
        else
        {
                ptr=start;
                start=start->next ;
                printf("nThe deleted element is :%dt",ptr->info);
                free(ptr);
        }
}
void delete_end()
{
        struct node *temp,*ptr;
        if(start==NULL)
        {
                printf("nList is Empty:");
                exit(0);
        }
        else if(start->next ==NULL)
        {
                ptr=start;
                start=NULL;
                printf("nThe deleted element is:%dt",ptr->info);
                free(ptr);
        }
        else
        {
                ptr=start;
                while(ptr->next!=NULL)
                {
                        temp=ptr;
                        ptr=ptr->next;
                }
                temp->next=NULL;
                printf("nThe deleted element is:%dt",ptr->info);
                free(ptr);
        }
}
void delete_pos()
{
        int i,pos;
        struct node *temp,*ptr;
        if(start==NULL)
        {
                printf("nThe List is Empty:n");
                exit(0);
        }
        else
        {
                printf("nEnter the position of the node to be deleted:t");
                scanf("%d",&pos);
                if(pos==0)
                {
                        ptr=start;
                        start=start->next ;
                        printf("nThe deleted element is:%dt",ptr->info  );
                        free(ptr);
                }
                else
                {
                        ptr=start;
                        for(i=0;i<pos;i++) { temp=ptr; ptr=ptr->next ;
                                if(ptr==NULL)
                                {
                                        printf("nPosition not Found:n");
                                        return;
                                }
                        }
                        temp->next =ptr->next ;
                        printf("nThe deleted element is:%dt",ptr->info );
                        free(ptr);
                }
        }
}
```