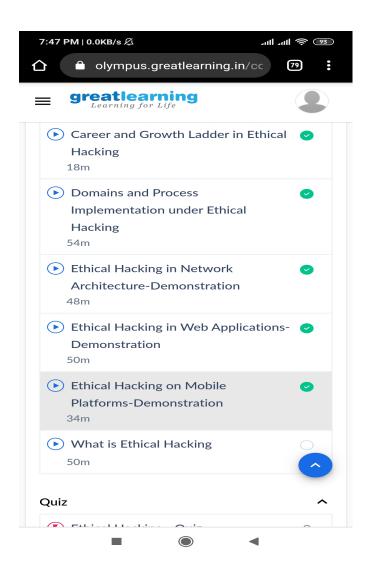
## DAILY ONLINE ACTIVITIES SUMMARY

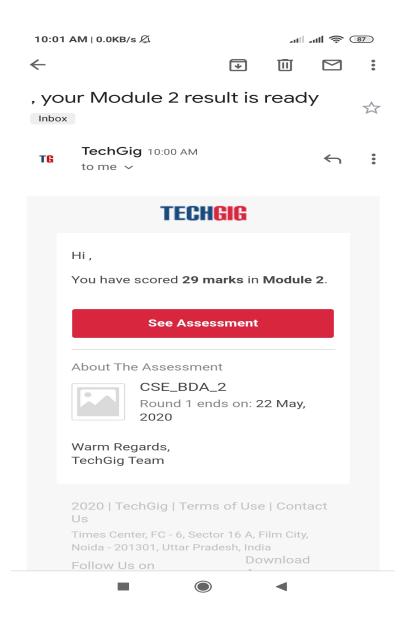
Date:	22/05/20		Name:	Anagha Iyengar S	
Sem & Sec VIII A		1	USN:	4AL16CS011	
		Online Te	est Summary		
Subject	Big dat	a analysis			
Max. Marks 40			Score	29	
Certification Course Summary					
Course	Introduc	tion to Ethical Hack	ing		
Certificate Provider		Great Learner Acdemy	Duration 6 Hours		
		Coding	Challenges		
correspondir be always No When you pu must be Null When you pu SLL is dynam insert the a n move the poi	ng to Firs ull. sh First I . top poin sh any e nic) Crea number ir inter top	Element, It is the First nter pointing to First lement, (No need of te a new node called nto Data field, and Li to point to temp.	e of the stack; et and it is Base . (top = First) checking Stack I temp using m nk field must b	and its link field must e of the stack. Its Link to full case because alloc function and e pointing to top; and	
When you po Empty. If it is pointer top to When you dis operation. If	p, First of not empore top->linesplay the it is not e	heck for stack Empt oty, The pointer temp k. delete temp. stack element, First	must be point Check for Stac	ting to top. Move the	
from top to First Status: Solved					
Uploaded the report		in Github	Yes		
If yes Repository nar		ne	anaghaiyenga	yengar/online_certificate	

## Uploaded the report in slack

Yes



Online certification



## Online test marks

## Program

First Create a Singly Linked List Stack with the node corresponding to First Element is the base of the stack; and its link field must be always Null.

When you push First Element, It is the First and it is Base of the stack. Its Link must be Null. top pointer pointing to First. (top = First)

When you push any element, (No need of checking Stack full case because SLL is

dynamic) Create a new node called temp using malloc function and insert the a number into Data field, and Link field must be pointing to top; and move the pointer top to point to temp.

When you pop, First check for stack Empty. If First == NULL, then Stack Empty. If it is not empty, The pointer temp must be pointing to top. Move the pointer top to top->link. delete temp.

When you display the stack element, First Check for Stack Empty as in pop operation. If it is not empty, Display all the elements of current stack starting from top to First

```
#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;
printf("\n 1 - Push");
printf("\n 2 - Pop");
printf("\n 3 - Top");
printf("\n 4 - Empty");
printf("\n 5 - Exit");
printf("\n 6 - Dipslay");
printf("\n 7 - Stack Count");
printf("\n 8 - Destroy stack");
create();
while (1)
{
  printf("\n Enter 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);
  }
  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 ");
    break;
  }
}
}
/* Create empty stack */
void create()
{
top = NULL;
}
/* Count stack elements */
void stack_count()
{
printf("\n No. of elements in stack : %d", count);
}
/* Push data into stack */
void push(int data)
{
if (top == NULL)
{
top =(struct node )malloc(1sizeof(struct node));
top->ptr = NULL;
top->info = data;
}
```

```
else
{
temp =(struct node )malloc(1sizeof(struct node));
temp->ptr = top;
temp->info = data;
top = temp;
count++;
}
/* Display stack elements */
void display()
{
top1 = top;
if (top1 == NULL)
{
  printf("Stack is empty");
  return;
}
while (top1 != NULL)
{
  printf("%d ", top1->info);
  top1 = top1->ptr;
}
```

```
/* Pop Operation on stack */
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--;
}
/* Return top element */
int topelement()
return(top->info);
}
/* Check if stack is empty or not */
void empty()
```

```
{
if (top == NULL)
printf("\n Stack is empty");
else
printf("\n Stack is not empty with %d elements", count);
}
/* Destroy entire stack */
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;
}
```