DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20-05-2020**	**Name:**	**Rakesh M Kotian**
Sem & Sec	**8 th sec-b**	**USN:**	**4al16cs072**

Online Test Summary

Subject	**iot**		
Max. Marks	**30**	**Score**	**22**

Certification Course Summary

Course	**Python for machine learning**		
Certificate Provider	**Great learning**	**Duration**	**6 hours**

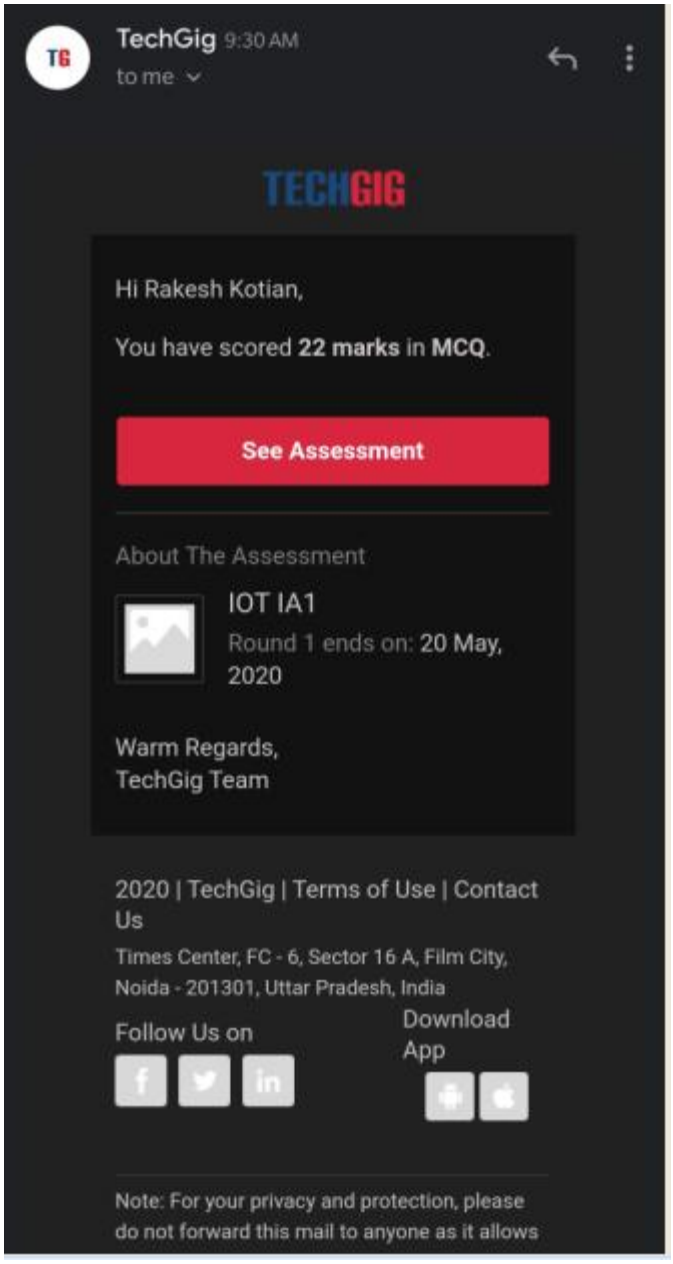
Coding Challenges

Problem Statement:
Write a C Program to Reverse a Linked List in groups of given size.

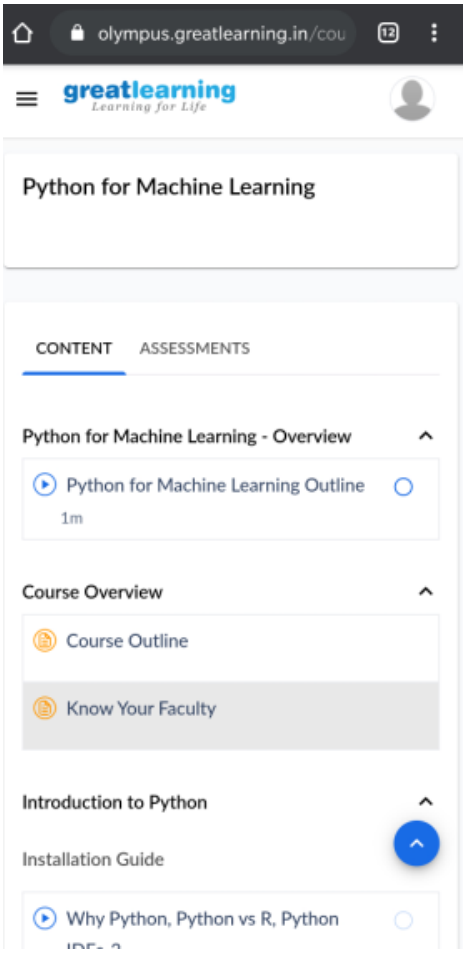
Status:solved

Uploaded the report in Github	**yes**
If yes Repository name	**Rakeshkotian08**
Uploaded the report in slack	**yes**

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



Certification Course Details: (Attach the snapshot and briefly write the report for the same)



Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

```
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);

}
```