DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20/05/2020**	**Name:**	**Shaima Abdul Kader**
Sem & Sec	**8th B**	**USN:**	**4AL16CS087**

Online Test Summary

Subject	**IOT**		
Max. Marks	**30**	**Score**	**26**

Certification Course Summary

Course	**STEP (THE HINDU GROUP)**		
Certificate Provider	**ICT Academy**	**Duration**	**10 hrs**

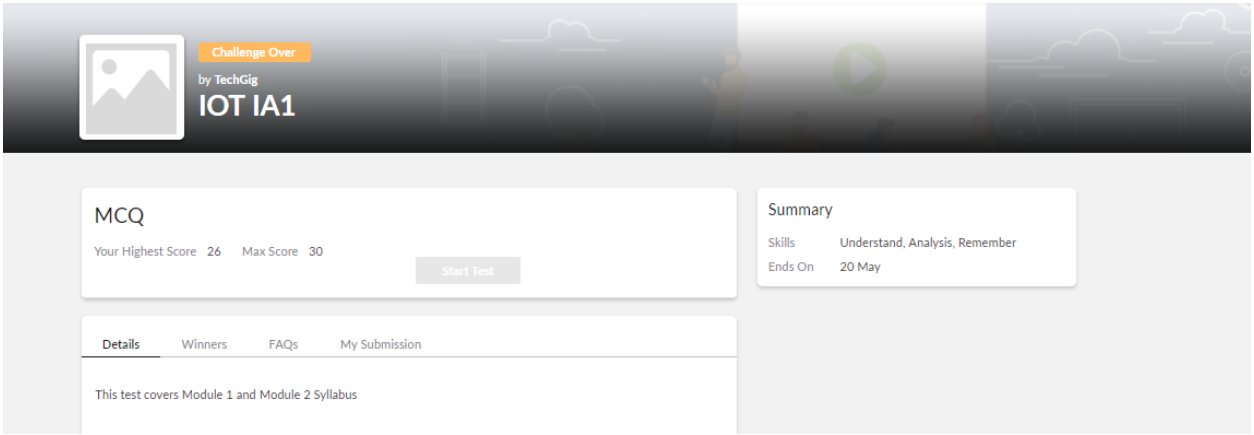
Coding Challenges

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

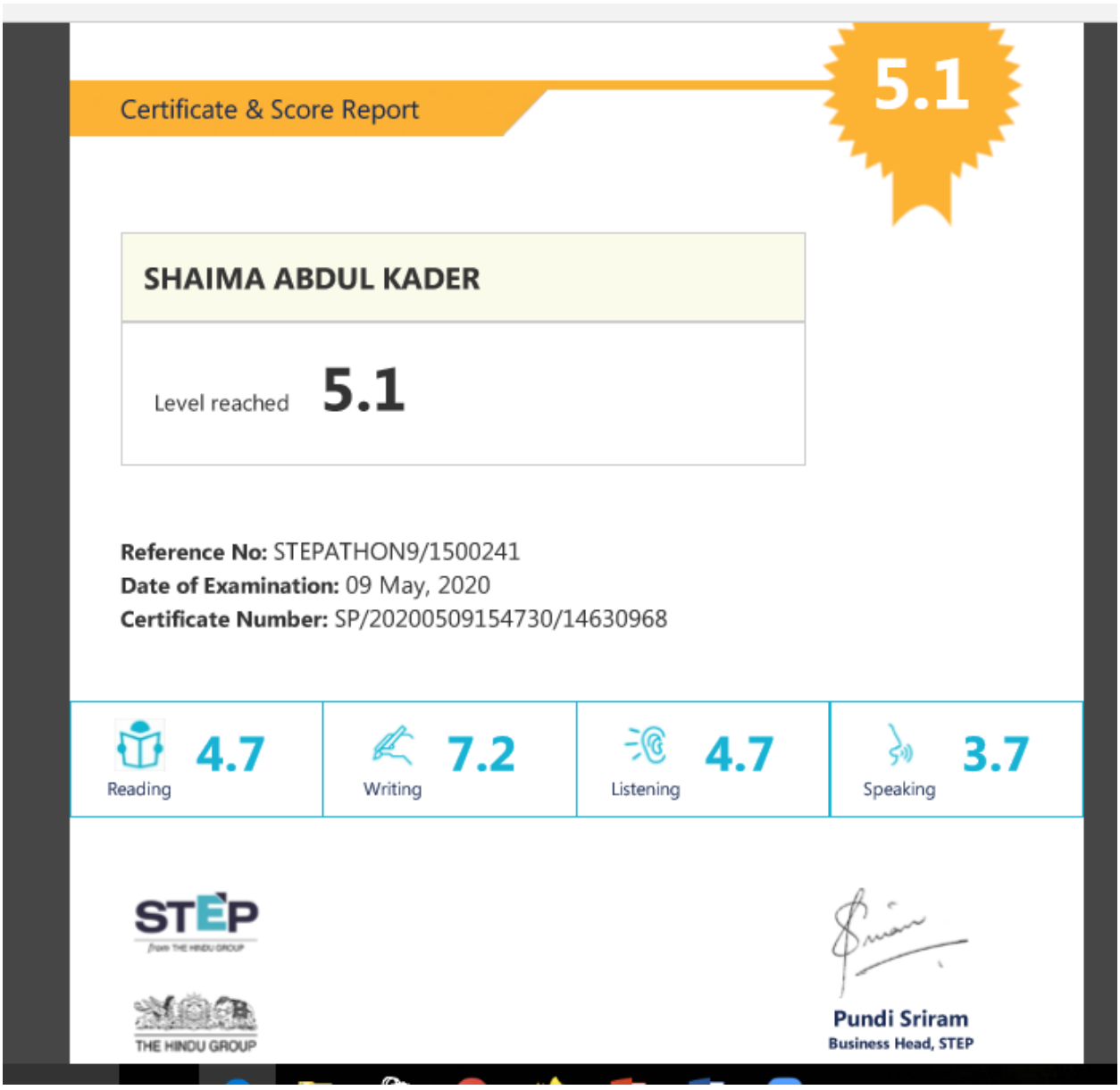
Status: Solved
Solution Link : https://github.com/alvas-education-foundation/shaima

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

Online Test Details:



Certification Course Details:



Coding Challenges Details:

program1:

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);
```