DAILY ONLINE ACTIVITIES SUMMARY

Date:	**16-06-2020**	**Name:**	**Ainab**
Sem & Sec	**VIII Semester & A Section**	**USN:**	**4AL16CS004**

Online Test Summary

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

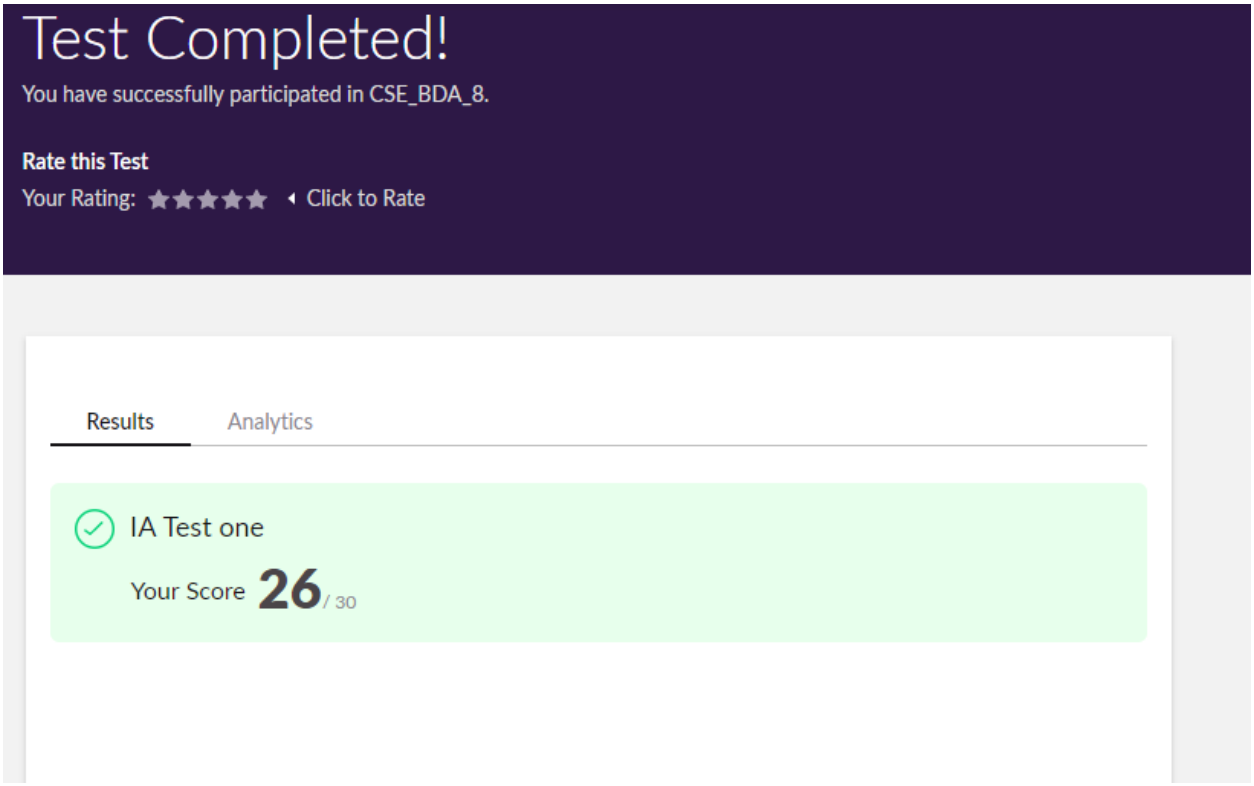
Certification Course Summary

Course	**Introduction to Serverless Development**		
Certificate Provider	**Amazon Web Service**	**Duration**	**25 minutes**

Coding Challenges

Problem Statement: Write a program in for triple linked list	
Status: COMPLETED	
Uploaded the report in Github	**YES**
If yes Repository name	**Ainab004**
Uploaded the report in slack	**YES**

Online Test Details:



Certification Course

Coding Challenges Details:

Program1:

```
#include<iostream>
                    #include<stdio.h>
                    using namespace std;
                    int a = 0;
                    struct node
                    {
                    node *next, *prev, *top;
                    int info;
                    }*head = NULL, *tail = NULL, *p = NULL, *r = NULL, *np =
                    NULL, *q = NULL;
                    void create(int z)
                    {
                    np = new node;
                    np->info = z;
                    np->next = NULL;
```

```
np->prev = NULL;
np->top = NULL;
if (a == 0)
{
tail = np;
head = np;
p = head;
p->next = NULL;
p->prev = NULL;
p->top = NULL;
a++;
}
else
{
p = head;
r = p;
if (np->info < p->info)
{
np->next = p;
p->prev = np;
np->prev = NULL;
head = np;
p = head;
do
{
p = p->next;
}
while (p->next != NULL);
tail = p;
}
else if (np->info > p->info)
{
while (p != NULL && np->info > p->info)
{
r = p;
p = p->next;
if (p == NULL)
{
r->next = np;
np->prev = r;
np->next = NULL;
tail = np;
break;
```

```
}
else if (np->info <= p->info)
{
if (np->info < p->info)
{
r->next = np;
np->prev = r;
np->next = p;
p->prev = np;
if (p->next != NULL)
{
do
{
p = p->next;
}
while (p->next !=NULL);
}
tail = p;
break;
}
else if (p->info == np->info)
{
q = p;
while (q->top != NULL)
{
q = q->top;
}
q->top = np;
np->top = NULL;
break;
}
}
}
}
}
}
void traverse_tail()
{
node *t = tail;
while (t != NULL)
{
cout<<t->info<<"\t";
q = t;
```

```
while (q->top != NULL)
{
q = q->top;
cout<<"top->"<<q->info<<"\t";
}
t = t->prev;
}
cout<<endl<<endl;
}
void traverse_head()
{
node *t = head;
while (t != NULL)
{
cout<<t->info<<"\t";
q = t;
while (q->top != NULL)
{
q = q->top;
cout<<"top->"<<q->info<<"\t";
}
t = t->next;
}
cout<<endl<<endl;
}
int main()
{
int c = 0, no, value, ch;
cout<<"Please enter the number of nodes: "<<endl;
cin>>no;
while (c < no)
{
cout<<endl<<"Enter the value of node: "<<endl;
cin>>value;
create(value);
c++;
}
cout<<endl<<"Traversing Doubly Linked List head:
"<<endl;
traverse_head();
cout<<endl<<"Traversing Doubly Linked List tail:
"<<endl;
traverse_tail();
```

```
}
```