DAILY ONLINE ACTIVITIES SUMMARY

Date:	**4/06/2020**	**Name:**	**Nagashree D**
Sem & Sec	**8th A**	**USN:**	**4AL16CS055**

Online Test Summary

Subject	**SMS**		
Max. Marks	**60**	**Score**	**60**

Certification Course Summary

Course	**Cyber Security**		
Certificate Provider	**Great learning Academy**	**Duration**	**7hr**

Coding Challenges

Problem Statement: HeapSort Java Program	
Status: Solved	
Uploaded the report in Github	**Yes**
If yes Repository name	**Nagashreed**
Uploaded the report in slack	**Yes**

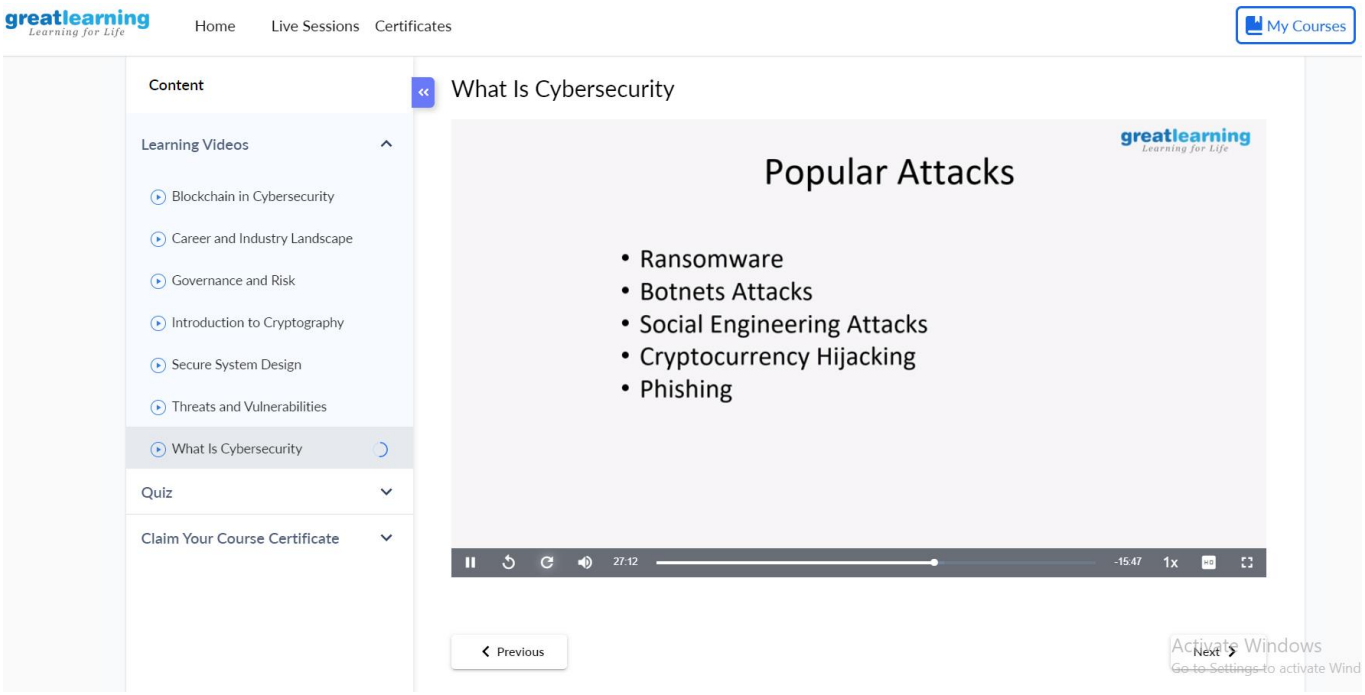
Online Test Details:

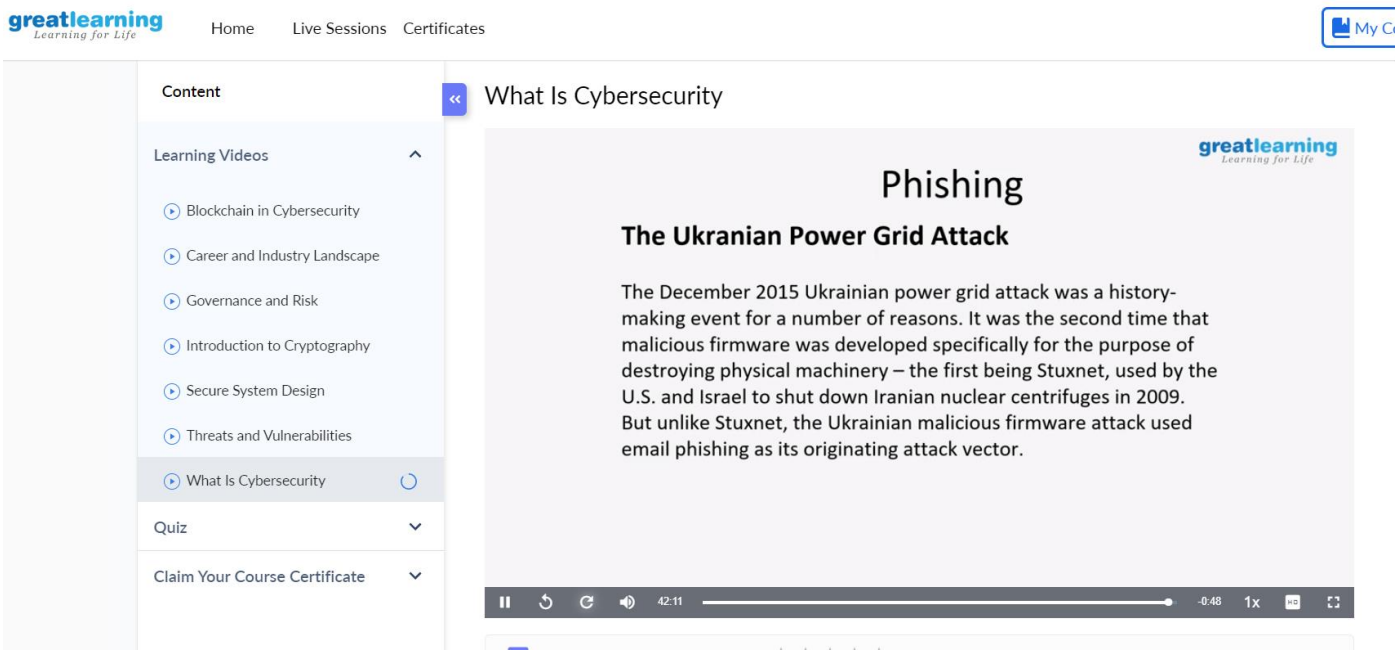
TECHGIG

Congratulations! Nagashree D,

You've cleared Round 1 and scored **60/60** in SMS_V. That's the maximum score one can reach in this assessment. View and share your achievement.

Certification Course Details





Coding Challenges Details:

Implement Heap Sort Java Program Using Array

```
public class HSort
{

public static void heapify(int a[],int i,int n)
{

int l=2*i+1;
int r=2*i+2;


int temp,largest;

if(l<n && a[l]>a[i])
largest=l;
else
largest=i;

if(r<n && a[r]>a[largest])
largest=r;

if(largest !=i)
{
temp=a[largest];
a[largest]=a[i];
a[i]=temp;

heapify(a,largest,n);
}


}
```

```
public static void bheap(int a[])
{

for(int i=(a.length/2)-1;i>=0;i--)
{

heapify(a,i,a.length);

}

}

public static void Sort(int a[])
{
int temp,j,i;

bheap(a);

for( i=(a.length)-1; i>0;)
{
temp=a[0];
a[0]=a[i];
a[i]=temp;
heapify(a,0,i--) ;

}

}

public static void printarray(int a[])
{
System.out.println();
for(int i=0; i < a.length; i++)
{

System.out.print(a[i]+" ");
}

}
public static void main(String[] args)
```

```
{
int n, res,i;
Scanner s = new Scanner(System.in);
System.out.print("Enter number of elements in the array:");
n = s.nextInt();
int a[] = new int[n];
System.out.println("Enter "+n+" elements ");
for( i=0; i < n; i++)
{
a[i] = s.nextInt();
}

System.out.println( "elements in array ");
printarray(a);
Sort(a);
System.out.println( "\nelements after sorting");
printarray(a);

}

}
```