

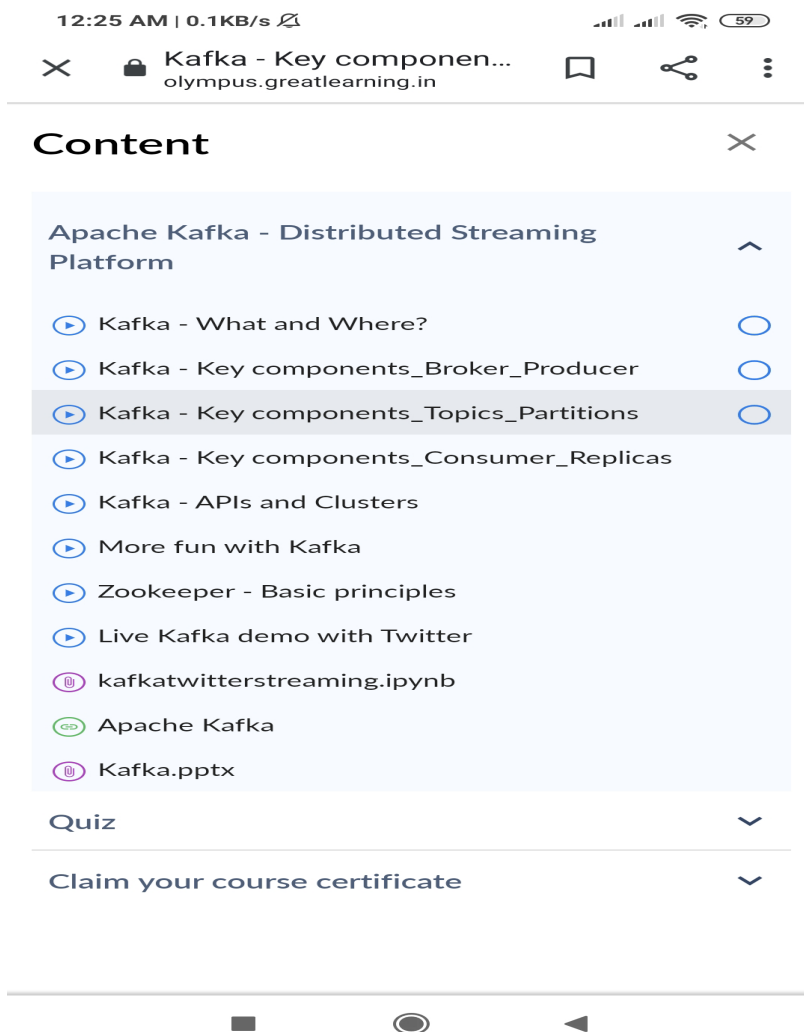
## DAILY ONLINE ACTIVITIES SUMMARY

<b>Date:</b>	10/06/2020	<b>Name:</b>	Anagha Iyengar S
<b>Sem &amp; Sec</b>	8 <sup>th</sup> sem,A	<b>USN:</b>	4AL16CS011
<b>Online Test Summary</b>			
<b>Subject</b>	---		
<b>Max. Marks</b>	---	<b>Score</b>	---
<b>Certification Course Summary</b>			
<b>Course</b>	Cyber security		
<b>Certificate Provider</b>	Greatlearning	<b>Duration</b>	5hr
<b>Coding Challenges</b>			
<b>Problem Statement: Implement Heap Sort Java Program Using Array</b>			
<b>Status: Solved</b>			
<b>Uploaded the report in Github</b>		<b>Yes</b>	
<b>If yes Repository name</b>		<b>anaghaiyengar</b>	

Uploaded the report in slack	Yes
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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)

/\*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);
}
}

```