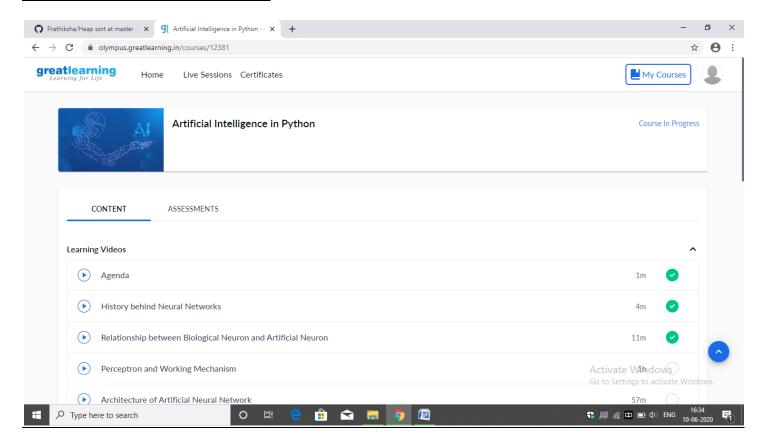
DAILY ONLINE ACTIVITIES SUMMARY

Date:	10/06/2020		Name:	Prathiksha	
Sem & Sec	8 th sem &	z B sec	USN:	4AL16CS070	
Online Test Summary					
Subject	-				
Max. Marks -			Score	-	
Certification Course Summary					
Course	Artificial Intelligence in Python				
Certificate Provider		Great Learning Academy	Duration		7hrs
Coding Challenges					
Problem Statement:					
1. Implement Heap Sort Java Program Using Array.					
Status: Solved					
Uploaded the report in Github			Yes		
If yes Repository name			Prathiksha		
Uploaded the report in slack			Yes		

Online Test Details:

Not conducted.

Certification Course Details:



Topic: About Artificial Intelligence in Python.

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Coding Challenges Details:

Program 1:

```
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);
}
}
```