

DAILY ONLINE ACTIVITIES SUMMARY

Date:	10/06/2020	Name:	Prathiksha
Sem & Sec	8 th sem & 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:

Prathiksha/Heap sort at master · x Artificial Intelligence in Python · x +

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Artificial Intelligence in Python Course In Progress

CONTENT ASSESSMENTS

Learning Videos

▶ Agenda	1m	✓
▶ History behind Neural Networks	4m	✓
▶ Relationship between Biological Neuron and Artificial Neuron	11m	✓
▶ Perceptron and Working Mechanism	1m	✓
▶ Architecture of Artificial Neural Network	57m	✓

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Topic : About Artificial Intelligence in Python.

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);

}

}

```