DAILY ONLINE ACTIVITIES SUMMARY

Date:	**10/06/2020**	**Name:**	**Ameen Ahmed**
Sem & Sec	**8th A**	**USN:**	**4AL16CS009**

Online Test Summary

Subject	**----**		
Max. Marks	**----**	**Score**	**---**

Certification Course Summary

Course	**Introduction to Amazon CloudBuilt**		
Certificate Provider	**AWS**	**Duration**	**3hr**

Coding Challenges

Problem Statement: Implement Heap Sort Java Program Using Array	
Status: Solved	
Uploaded the report in Github	**Yes**
If yes Repository name	**Ameen_ahmed**
Uploaded the report in slack	**Yes**

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);
}
}
```