**DAILY ONLINE ACTIVITIES SUMMARY**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **13-07-2020** | | | | | **Name:** | **Prashanth S** | |
| **Sem & Sec** | **8th sem B sec** | | | | | **USN:** | **4AL16CS069** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | |  | | | | | | |
| **Max. Marks** | |  | | **Score** | | |  | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Robotic process automation** | | | | | | | |
| **Certificate Provider** | | | **GUVI** | | **Duration** | | | **3hr** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement:** **Heap sort in python** | | | | | | | | |
| **Status: completed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **prashanth** | | | |
| **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)

COMPLETED

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Coding was given n it was uploaded for github and slack

PROGRAM1

def heapify(arr, n, i):

largest = i # Initialize largest as root

l = 2 \* i + 1 # left = 2\*i + 1

r = 2 \* i + 2 # right = 2\*i + 2

if l < n and arr[i] < arr[l]:

largest = l

if r < n and arr[largest] < arr[r]:

largest = r

if largest != i:

arr[i],arr[largest] = arr[largest],arr[i]

heapify(arr, n, largest)

def heapSort(arr):

n = len(arr)

for i in range(n // 2 - 1, -1, -1):

heapify(arr, n, i)

for i in range(n-1, 0, -1):

arr[i], arr[0] = arr[0], arr[i]

heapify(arr, i, 0)

arr = [ 12, 11, 13, 5, 6, 7]

heapSort(arr)

n = len(arr)

print ("Sorted array is")

for i in range(n):

print ("%d" %arr[i]),