DAILY ONLINE ACTIVITIES SUMMARY

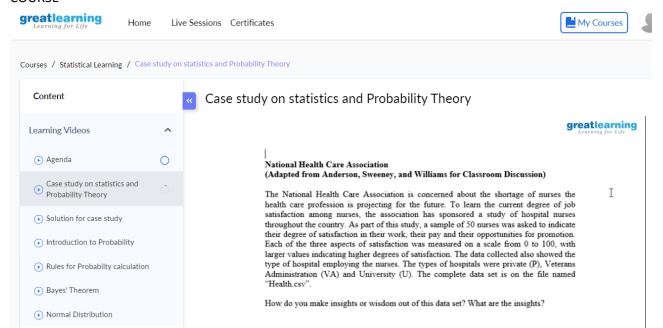
Date:	10-6-20		Name:	Pragathi h d					
Sem & Sec	8 sem B	sec	USN:	4AL16CS066					
Online Test Summary									
Subject									
Max. Marks	;		Score						
Certification Course Summary									
Course	Ethical h	Ethical hacking							
Certificate Provider		Learning academy	Duration	5.00hrs					
Coding Challenges									
Problem Statement: merge sort									
Status: Solved									
Uploaded th	e report ii	n Github	Uploaded						
If yes Repos	itory nam	e	Pragathijair	Pragathijain					
Uploaded th	e report ii	ı slack	yes	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)

COURSE



Coding

```
def
merge(arr,
1, m, r):
                  n1 = m - 1 + 1
                  n2 = r - m
                  L = [0] * (n1)
                  R = [0] * (n2)
                  for i in range(0 , n1):
                      L[i] = arr[l + i]
                  for j in range(0 , n2):
                      R[j] = arr[m + 1 + j]
                  i = 0
                  j = 0
                  k = 1
                  while i < n1 and j < n2 :</pre>
                      if L[i] <= R[j]:</pre>
                           arr[k] = L[i]
                           i += 1
```

```
else:
            arr[k] = R[j]
           j += 1
       k += 1
   while i < n1:
       arr[k] = L[i]
       i += 1
       k += 1
   while j < n2:
       arr[k] = R[j]
       j += 1
       k += 1
def mergeSort(arr,1,r):
   if 1 < r:
       m = (1+(r-1))//2
       mergeSort(arr, 1, m)
       mergeSort(arr, m+1, r)
       merge(arr, 1, m, r)
arr = [12, 11, 13, 5, 6, 7]
n = len(arr)
print ("Given array is")
for i in range(n):
    print ("%d" %arr[i]),
mergeSort(arr,0,n-1)
print ("\n\nSorted array is")
for i in range(n):
    print ("%d" %arr[i]),
```