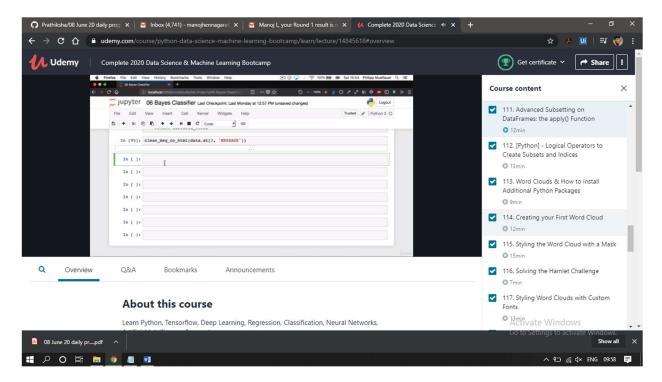
DAILY ONLINE ACTIVITIES SUMMARY

Date:	10/06/2020		Name:	Manoj L			
Sem & Sec	8 th sem		USN:	4AL16CS125			
Online Test Summary							
Subject	-						
Max. Marks -			Score	-			
Certification Course Summary							
Course	Data Scie	Data Science and Machine Learning Bootcamp					
Certificate Provider		Udamy	Duration		42 hrs		
Coding Challenges							
Problem Statement: 1. Implement Heap Sort Java Program Using Array.							
Status: Solved							
Uploaded the report in Github			Yes				
If yes Repository name			Manoj_L				
Uploaded the report in slack			Yes				

Certification Cource



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[1]>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;)
\{ \text{ 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);
}
```