

DAILY ONLINE ACTIVITIES SUMMARY

Date:	11-07-2020	Name:	Pallavi I sutar
Sem & Sec	8 th B	USN:	4al16cs061
Online Test Summary			
Subject	--		
Max. Marks	--	Score	--
Certification Course Summary			
Course	1) Robotic Process Automation (RPA) 2) Introduction to ethical hacking 3) Introduction to cyber security 4) Introduction to Hadoop		
Certificate Provider	1)Great learner Academy 2)GUVI	Duration	Ethical hacking - 6 Hrs Cyber Security - 7 Hrs RAP:3.00hrs Hadoop – 4 Hrs
Coding Challenges			
Problem Statement:			
Python Program implementation of binary insertion sort			
Status: solved			
Python Program implementation of binary insertion sort			
Uploaded the report in Github		yes	
If yes Repository name		Pallavi-sutar	
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)





Certificate of completion

Presented to

Pallavi Sutar

For successfully completing a free online course
Introduction to Cyber Security

Provided by
Great Learning Academy
(On June 2020)

To verify this certificate visit verify.greatlearning.in/GAXXBOFH



Certificate of completion

Presented to

Pallavi Sutar

For successfully completing a free online course
Introduction to Ethical Hacking

Provided by
Great Learning Academy
(On May 2020)

To verify this certificate visit verify.greatlearning.in/UYSECPYA



pallavi sutar

is here by awarded the certificate of achievement for
the successful completion of

Step into Robotic Process Automation

during GUVI's RPA **SKILL-A-THON** 2020


S.P. Balamurugan

Co-founder, CEO

Valid certificate ID kx1hn6a09156S15530

Verified certificate issue on June 1 2020

Verify certificate at www.guvi.in/certificate?id=kx1hn6a09156S15530

In association with



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

Solution

```
def binary_search(arr, val, start, end):  
    # we need to distinguish whether we should insert  
    # before or after the left boundary.  
    # imagine [0] is the last step of the binary search  
    # and we need to decide where to insert -1  
    if start == end:  
        if arr[start] > val:  
            return start  
        else:  
            return start+1  
    # this occurs if we are moving beyond left's boundary  
    # meaning the left boundary is the least position to  
    # find a number greater than val  
    if start > end:  
        return start  
    mid = (start+end)/2
```

```
if arr[mid] < val:
    return binary_search(arr, val, mid+1, end)
elif arr[mid] > val:
    return binary_search(arr, val, start, mid-1)
else:
    return mid
def insertion_sort(arr):
    for i in xrange(1, len(arr)):
        val = arr[i]
        j = binary_search(arr, val, 0, i-1)
        arr = arr[:j] + [val] + arr[j:i] + arr[i+1:]
    return arr
print("Sorted array:")
print insertion_sort([37, 23, 0, 17, 12, 72, 31,
46, 100, 88, 54])
```