

DAILY ONLINE ACTIVITIES SUMMARY

Date:	16-06-2020	Name:	M.C Suchithra Heggade
Sem & Sec	6th Sem 'A' Sec	USN:	4AL17CS047
Online Test Summary			
Subject	Python		
Max. Marks	20	Score	15
Certification Course Summary			
Course	Front end Development-HTML		
Certificate Provider	Great Learning	Duration	5 hr
Coding Challenges			
BST Write a Python program to check whether a given a binary tree is a valid binary search tree (BST) or not?			
SLL Write a Java Program to Find the Middle Node of a Linked list in a Singlepass.			
Status: Completed			

Uploaded the report in Github	yes
If yes Repository name	https://github.com/Suchitraheggade/certification-and-Online-coding https://github.com/suchitraheggade/Workshop-on-Python-Program
Uploaded the report in slack	yes

Online Test Details:

Python:

Test Completed!

You have successfully participated in Day 2 Workshop Test for Students.

Rate this Test
Your Rating: ★★★★★ • Click to Rate

Results Analytics

Round 1
Your Score **15** / 20

Certification Course Details:

Topics completed:

Forms

The screenshot shows a web browser window with the Great Learning logo and navigation links (Home, Live Sessions, Certificates). The page title is "22. Forms". On the left, a sidebar lists the following topics under "HTML":

- 1. Introduction to Front end (checked)
- Introduction to Front-end (checked)
- 2. Creating HTML file (checked)
- Creating an HTML File (checked)
- 3. HTML Structure (checked)
- HTML Structure (checked)
- 4. Paragraph Tags (checked)
- Paragraph Tags (checked)
- 5. More on Head Tags (checked)
- More on HEAD Tags (checked)

The main content area displays a video player showing a live session. The video player interface includes a play button, a progress bar at 3:12, and a volume icon. The video content shows a web browser window with a form titled "Forms" containing fields for "Name", "Start date", "Password", and a "Submit" button. The browser's developer tools are open, showing the "Elements" panel with the form's HTML structure and the "Styles" panel with the form's CSS styles.

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Coding Challenges Details:

1.BST

Write a Python program to check whether a given a binary tree is a valid binary search tree (BST) or not?

```
root = root.left
root = stack.pop()
if prev and root.val <= prev.val:
    return False
prev = root
root = root.right
return True

root = TreeNode(2)
root.left = TreeNode(1)
root.right = TreeNode(3)

result = is_BST(root)
print(result)

root = TreeNode(1)
root.left = TreeNode(2)
root.right = TreeNode(3)

result = is_BST(root)
print(result)
```

True
False

2.SLL

Write a Java Program to Find the Middle Node of a Linked list in a Singlepass.

```
public class LinkedListTest {

    public static void main(String args[]) {
        //creating LinkedList with 5 elements including head
        LinkedList linkedList = new LinkedList();
        LinkedList.Node head = linkedList.head();
        linkedList.add( new LinkedList.Node("1"));
        linkedList.add( new LinkedList.Node("2"));
        linkedList.add( new LinkedList.Node("3"));
        linkedList.add( new LinkedList.Node("4"));

        //finding middle element of LinkedList in single pass
        LinkedList.Node current = head;
        int length = 0;
        LinkedList.Node middle = head;

        while(current.next() != null){
            length++;
            if(length%2 == 0){
                middle = middle.next();
            }
            current = current.next();
        }

        if(length%2 == 1){
            middle = middle.next();
        }

        System.out.println("length of LinkedList: " + length);
        System.out.println("middle element of LinkedList : " + middle);
    }

}

class LinkedList{
    private Node head;
    private Node tail;
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Stdin Inputs

Interactive

CommandLine Arguments

Execute

Result

CPU Time: 0.22 sec(s), Memory: 35836 kilobyte(s) compiled and executed in 0.959 sec(s)

length of LinkedList: 4
middle element of LinkedList : 2