DAILY ONLINE ACTIVITIES SUMMARY

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **16/6/2020** | | | | **Name:** | **Sushmitha Shet** | |
| **Sem & Sec** | **8 B** | | | | **USN:** | **4al16cs110** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **BDA** | | | | | |
| **Max. Marks** | | **30** | | **Score** | | **22** | |
| Certification Course Summary | | | | | | | |
| **Course** | **SaaS** | | | | | | |
| **Certificate Provider** | | | **AWS** | **Duration** | | | **1hr** |
| Coding Challenges | | | | | | | |
| **Problem Statement: Write a Python program to check whether a given a binary tree is a valid binary search tree (BST) or not.** | | | | | | | |
| **Status:-solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **sushmithashet** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online coding:

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

class TreeNode(object):

def \_\_init\_\_(self, x):

self.val = x

self.left = None

self.right = None

def is\_BST(root):

stack = []

prev = None

while root or stack:

while root:

stack.append(root)

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)