

DAILY ONLINE ACTIVITIES SUMMARY

Date:	17/6/2020	Name:	Vleena Mascarenhas
Sem & Sec	8 th & B	USN:	4AL16CS121
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	Introduction to IOT Device Defender.		
Certificate Provider	AWS	Duration	20 minutes
Coding Challenges			
Problem Statement: Write a Python program to check if a binary tree is BST or not.			
Status: Solved			
Uploaded the report in Github		yes	
If yes Repository name		vleena	
Uploaded the report in slack		yes	

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)

Problem Statement:

Write a Python program to check if a binary tree is BST or not.

```
INT_MAX=4294967296
```

```
INT_MIN=-4294967296
```

```
class Node:
```

```
    def __init__(self,data):
```

```
        self.data=data
```

```
        self.left=None
```

```

        self.right=None

def isBST(node):

    return (isBSTUtil(node,INT_MIN,INT_MAX))

def isBSTUtil(node,mini,maxi):

    if node is Node:

        return True

    if node.data<mini or node.data>maxi:

        return False

    return (isBSTUtil(node.left,mini,node.data-1) and isBSTUtil(node.right,node.data+1,maxi))

root=Node(4)

root.left=Node(2)

root.right=Node(5)

root.left.left=Node(1)

root.left.right=Node(3)


if(isBST(root)):

    print("Is BST")

else:

    print("Not a BST")

```

OUTPUT:

Is BST