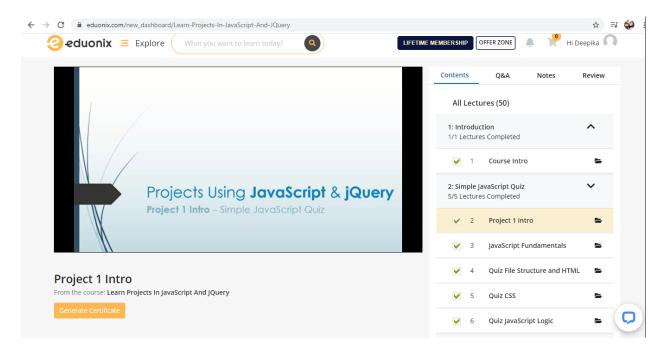
## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	21-06-2020		Name:	Deepika K V	
Sem & Sec	8th sem 'A' sec		USN:	4AL16CS030	
Online Test Summary					
Subject					
Max. Marks	-		Score	-	
Certification Course Summary					
Course Learn Projects in Javascript and JQuery					
Certificate Provider		eduonix	Duration		9 hrs
Coding Challenges					
Problem Statement: Write a python program to check the given binary tree is a valid binary search tree(BST) or not.					
Status: SUBMITTED					
Uploaded the report in Github			YES		
If yes Repos	itory nam	e	Codes		
Uploaded the report in slack			YES		

## **Online test details:**

## **Certification Course Details:**



## **Coding Challenge:**

```
INT_MAX =
4294967296

INT_MIN = -4294967296

class Node:

    # Constructor to create a new node
    def __init__(self, data):
        self.data = data
        self.left = None
        self.right = None

# Returns true if the given tree is a binary search tree
# (efficient version)
    def isBST(node):
        return (isBSTUtil(node, INT_MIN, INT_MAX))
```

```
# Retusn true if the given tree is a BST and its values
# >= min and <= max
def isBSTUtil(node, mini, maxi):
    # An empty tree is BST
    if node is None:
        return True
    # False if this node violates min/max constraint
    if node.data < mini or node.data > maxi:
        return False
    # Otherwise check the subtrees recursively
    # tightening the min or max constraint
    return (isBSTUtil(node.left, mini, node.data -1) and
          isBSTUtil(node.right, node.data+1, maxi))
# Driver program to test above function
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")
```