DAILY ONLINE ACTIVITIES SUMMARY

Date:	**11-06-2020**	**Name:**	**Anvitha Poojary**
Sem & Sec	**6A**	**USN:**	**4AL17CS008**

Online Test Summary

Subject	**PAP**		
Max. Marks	**20**	**Score**	**15**

Certification Course Summary

Course	**Machine Learning with Python**		
Certificate Provider	**COGNITIVE CLASS .ai**	**Duration**	**12hr**

Coding Challenges

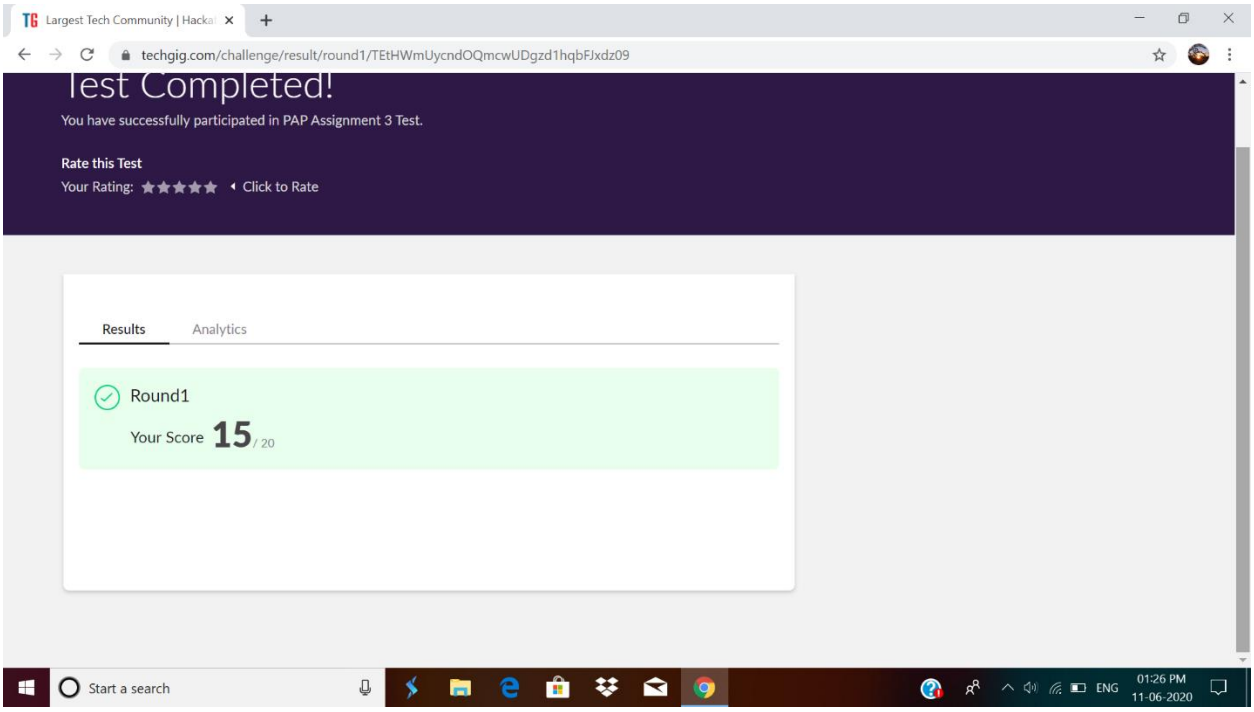
Problem Statement:
1.Write a Java program to find the nodes which are at the maximum distance in a Binary Tree
2. Write a python function that converts a string to all uppercase, provided it contains at least 2 uppercase characters in the first 4 characters. Else print the string as it is

Status: completed

Uploaded the report in Github	**Yes**
If yes Repository name	https://github.com/anvithapo99/Daily-Report
Uploaded the report in slack	**Yes**

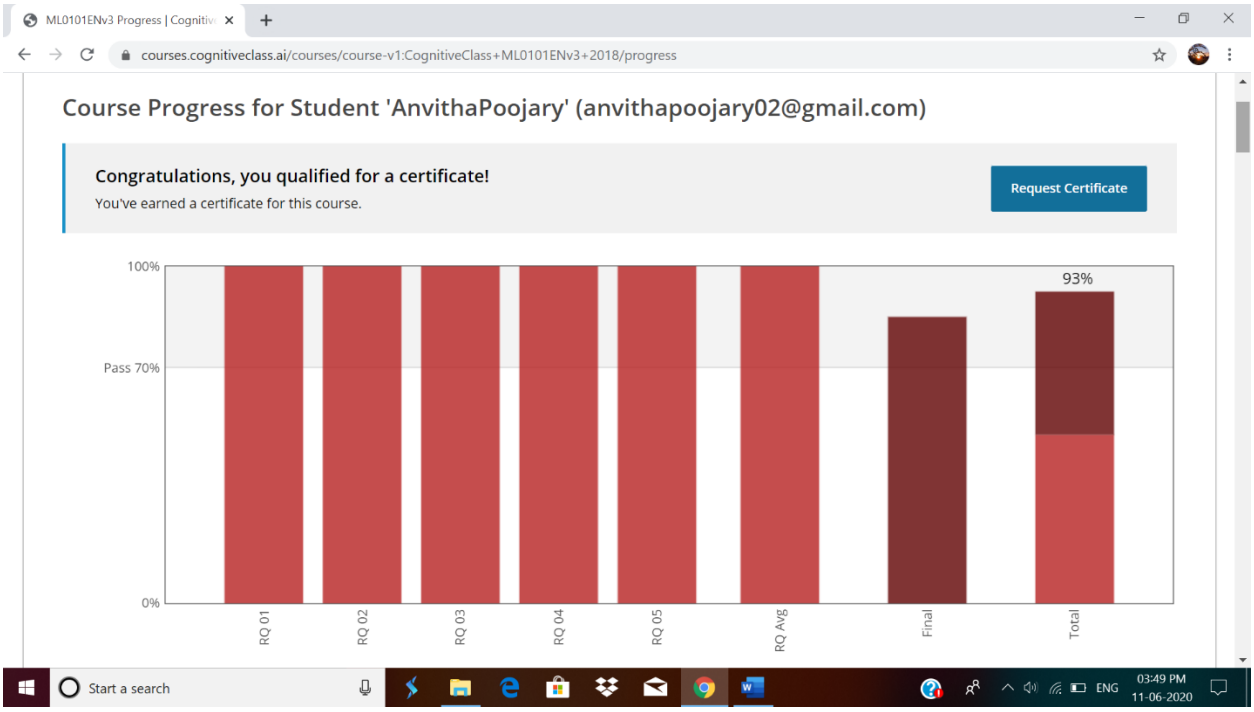
Online test details:

Subject:PAP



Certification course details:

Machine Learning with Python



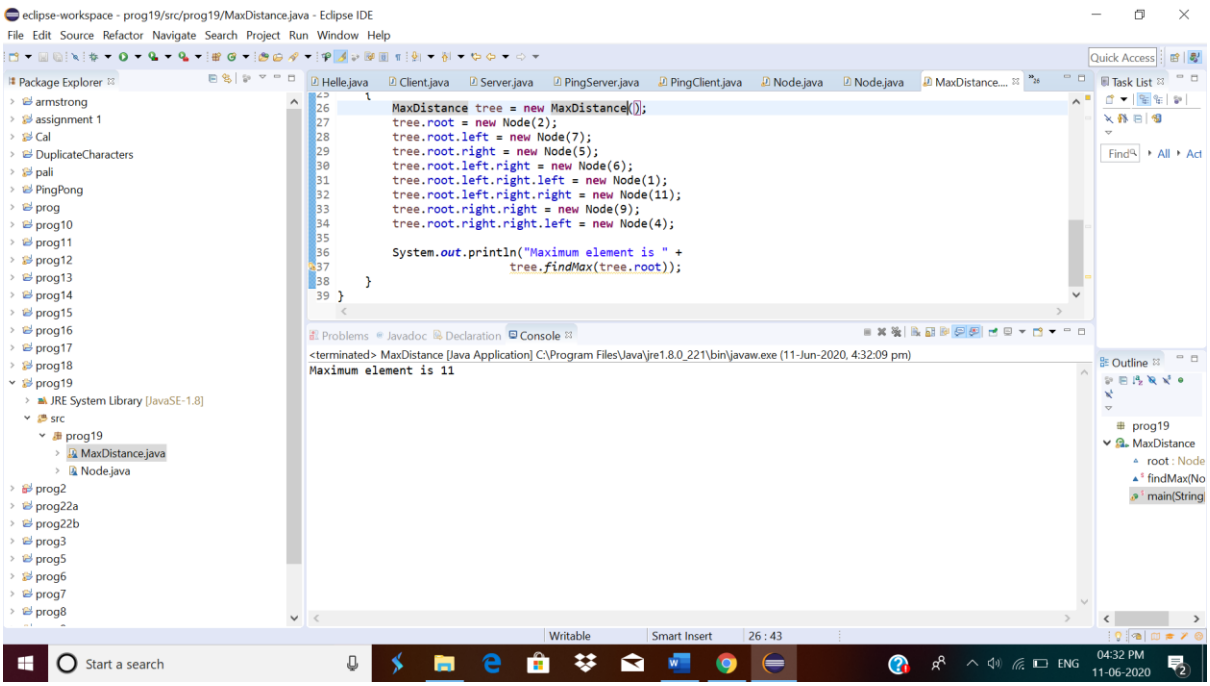
Coding Challenges Details:

1.Write a Java program to find the nodes which are at the maximum distance in a Binary Tree

```
package prog19;
class Node {
    int data;
    Node left, right;

public Node(int data)
    {
        this.data = data;
        left = right = null;
    }
}

package prog19;

class MaxDistance{
    Node root;

    // Returns the max value in a binary tree
    static int findMax(Node node)
    {
        if (node == null)
            return Integer.MIN_VALUE;

        int res = node.data;
        int lres = findMax(node.left);
        int rres = findMax(node.right);

        if (lres > res)
            res = lres;
        if (rres > res)
            res = rres;
        return res;
    }

    /* Driver program to test above functions */
    public static void main(String args[])
    {
       MaxDistance tree = new MaxDistance();
        tree.root = new Node(2);
```

```
        tree.root.left = new Node(7);
        tree.root.right = new Node(5);
        tree.root.left.right = new Node(6);
        tree.root.left.right.left = new Node(1);
        tree.root.left.right.right = new Node(11);
        tree.root.right.right = new Node(9);
        tree.root.right.right.left = new Node(4);

        System.out.println("Maximum element is " +
                           tree.findMax(tree.root));
    }
}
```

Output:



3. Write a python function that converts a string to all uppercase, provided it contains at least 2 uppercase characters in the first 4 characters. Else print the string as it is
1)Input:
Given string is : HeLlo
Output string is: HELLO

2. Input:
   Given string is : Hello
   Output string is: Hello

```
def to_uppercase(str1):
    num_upper = 0
    for letter in str1[:4]:
        if letter.upper() == letter:
            num_upper += 1
    if num_upper >= 2:
        return str1.upper()
    return str1


print(to_uppercase('hello'))
print(to_uppercase('HelLo'))
```

output: