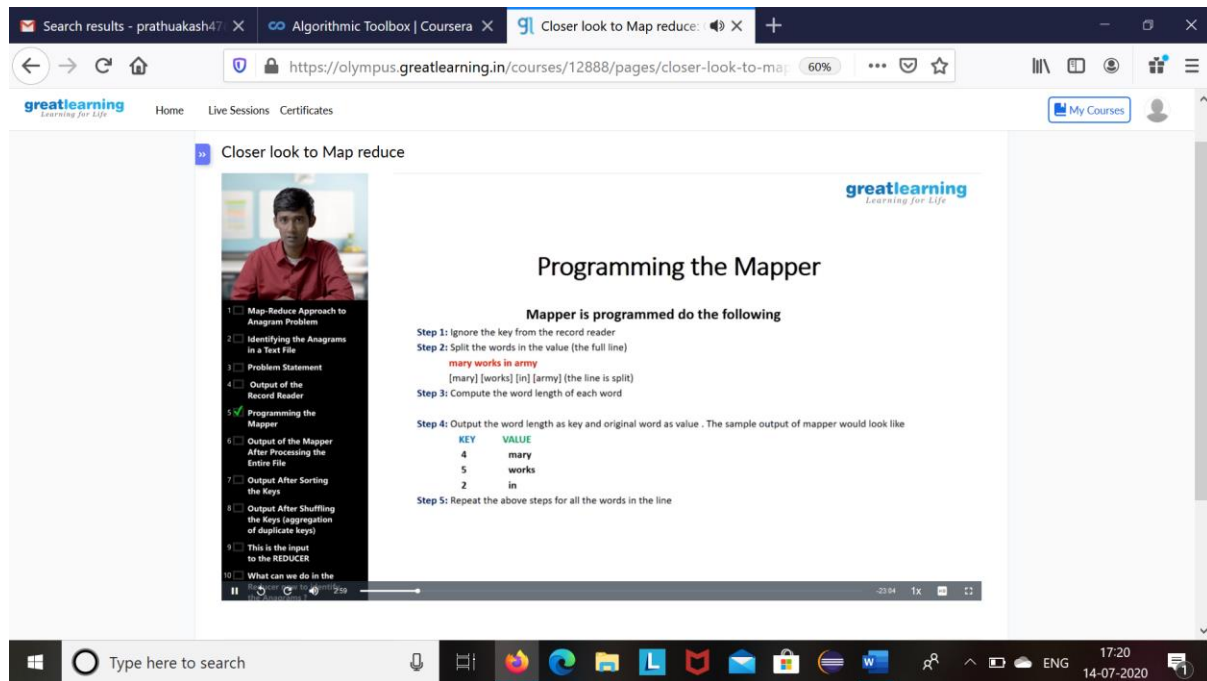


DAILY ONLINE ACTIVITIES SUMMARY

Date:	14 th july,2020	Name:	Pramod R
Sem & Sec	4 th sem & b section	USN:	4AL18CS059
Online Test Summary			
Subject	-----		
Max. Marks	-----	Score	-----
Certification Course Summary			
Course	Hadoop fundamentals		
Certificate Provider	Great learning	Duration	6 hrs
Coding Challenges			
Problem statement: write a java program to check for balanced parenthesis.			
Status: done			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/prathu47/lockdown-reports	
Uploaded the report in slack		yes	

Online test details:(Attach the snapshot and briefly write the report for the same)

Certification Course Details: (Attach the snapshot and briefly write the report for the same)



The screenshot shows a web browser window with the Great Learning website. The page title is "Closer look to Map reduce". The main content area is titled "Programming the Mapper" and describes the steps for processing anagrams. A table of contents on the left lists the course modules, with "Programming the Mapper" highlighted. The main content area includes a video player with a thumbnail of a man, a table of contents on the left, and a main section titled "Programming the Mapper" with steps for processing anagrams.

Map-Reduce Approach to Anagram Problem

1. Map-Reduce Approach to Anagram Problem
2. Identifying the Anagrams in a Text File
3. Problem Statement
4. Output of the Record Reader
5. Programming the Mapper
6. Output of the Mapper After Processing the Entire File
7. Output After Sorting the Keys
8. Output After Shuffling the Keys (aggregation of duplicate keys)
9. This is the input to the REDUCER
10. What can we do in the

Programming the Mapper

Mapper is programmed to do the following

Step 1: Ignore the key from the record reader

Step 2: Split the words in the value (the full line)

mary works in army

[mary] [works] [in] [army] (the line is split)

Step 3: Compute the word length of each word

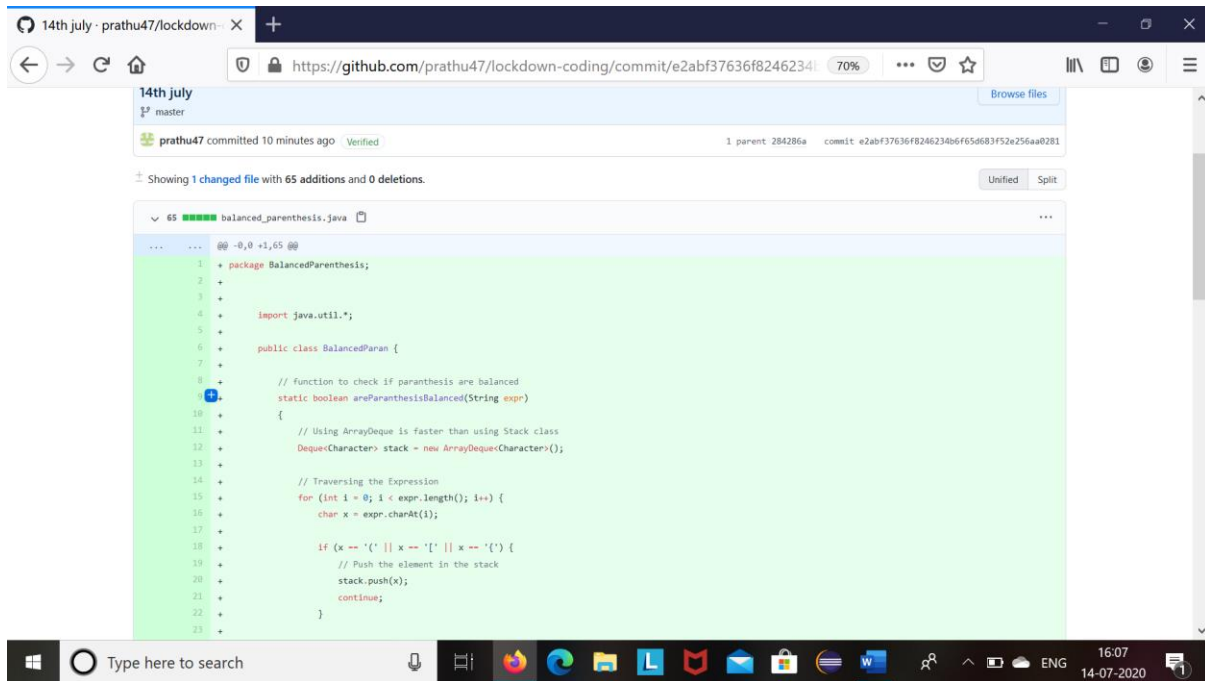
Step 4: Output the word length as key and original word as value. The sample output of mapper would look like

KEY	VALUE
4	mary
5	works
2	in

Step 5: Repeat the above steps for all the words in the line

The course I have chosen during the lockdown period is hadoop fundamentals. since I was interested in Hadoop technology I opted for this course . Today learnt about mapping in Hadoop.

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same.



The screenshot shows a GitHub commit page for a repository named 'prathu47/lockdown-coding'. The commit is titled '14th july' and was made by 'prathu47' 10 minutes ago. It shows a single file change: 'balanced_parenthesis.java'. The code is a Java program that checks if a given expression has balanced parentheses using a stack. The code is as follows:

```
1 package BalancedParenthesis;
2
3
4 import java.util.*;
5
6 public class BalancedParen {
7
8     // function to check if paranthesis are balanced
9     static boolean areParanthesisBalanced(String expr)
10    {
11        // Using ArrayDeque is faster than using Stack class
12        Deque<Character> stack = new ArrayDeque<Character>();
13
14        // Traversing the Expression
15        for (int i = 0; i < expr.length(); i++) {
16            char x = expr.charAt(i);
17
18            if (x == '(' || x == '[' || x == '{') {
19                // Push the element in the stack
20                stack.push(x);
21                continue;
22            }
23        }
```

Coding challenge:

Write a java program to check the balanced parenthesis .