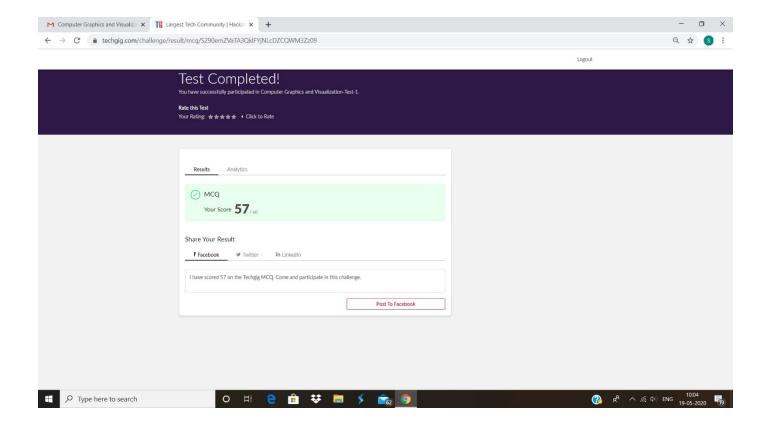
DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020		Name:	M.C Su	chithra Heggade		
Sem & Sec	VI A		USN:	4AL17	4AL17CS047		
		Online Tes	t Summar	y			
Subject	CGV	IA Test					
Max. Marks	60		Score	57			
		Certification C	ourse Sum	mary	_		
Course	Course Python for Machine learning						
Certificate F	rovider	GreatLearning	Duration		5hr		
Coding Challenges							
Problem Statement:							
out shor string. I add som	rtest palind f we take ' ne characte	er or a word then we need frome For example we tall "xyz": zyxyz will be the sers to the given string or come string by using simple	ke "S": S will shortest palind character and f	be the short rome string	test palindrome So we need to		
First take value to S head node a in respecti	a Stack. T tack. Once again. In ea ve iteration	le to identify given linked fraverse through each node the traversal & copying ach iteration, pop one stace n. It is expected to match es, its a palindrome. Any palindror	le of the linked is done, iterate ck element and stack popped one element m	d list and pute through lid compare walue with	nsh each node nked list from with node value node value. In		
Status:Completed,executed							
Uploaded th	e report i	n Github	Yes				

If yes Repository name	https://github.com/Suchitraheggade/certification-and-online-coding
Uploaded the report in slack	Yes

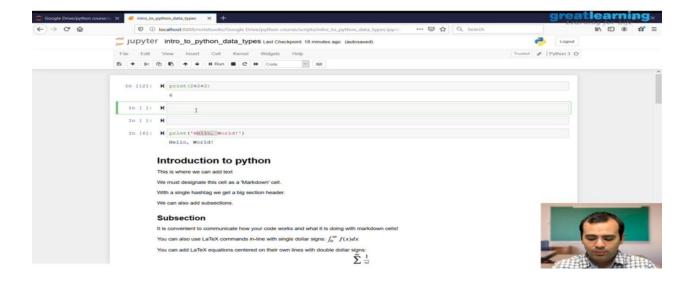
Online Tests



Online Certification Details

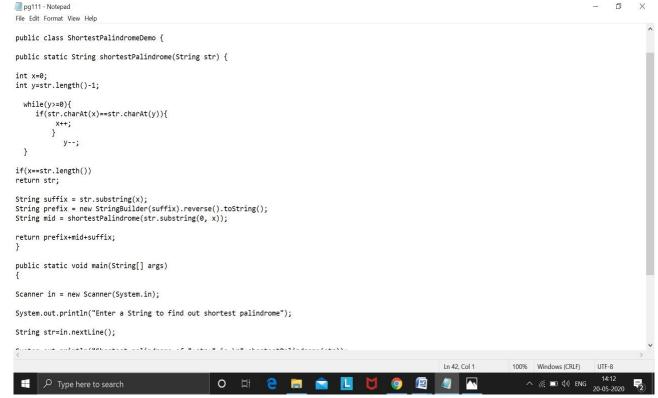
Modules completed:

- -Why python, python vs R,
- -Anaconda installation, Intro to Jupyter Notebook-2
- -Jupiter Notebook Shortcut-2



Coding Challenge Details

1.We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome For example we take "S": S will be the shortest palindrome string. If we take "xyz": zyxyz will be the shortest palindrome string So we need to add some characters to the given string or character and find out what will be the shortest palindrome string by using by using simple java program.



simple java program

```
if(x=str.length())
return str;

String suffix = str.substring(x);
String suffix = str.substring(x);
String prefix = new Stringguilder(suffix).reverse().tostring();
String mid = shortestPalindrome(str.substring(0, x));
return prefix+mid+suffix;
}

public static void main(String[] args) {

Scanner in = new Scanner(system.in);

System.out.println("Enter a String to find out shortest palindrome");

String str-in.nextLine();

System.out.println("Shortest palindrome of "+str+" is \n"+shortestPalindrome(str));
}

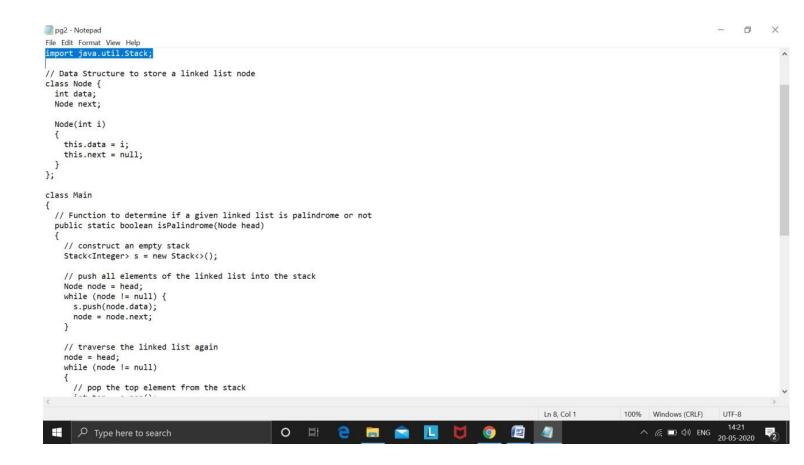
Output:
Enter a String to find out shortest palindrome
ny name is Suchithra
Shortest palindrome of my name is Suchithra is
arthibux si eman ymy name is Suchithra is
arthibux si eman ymy name is Suchithra

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D Type here to search
```

2. Write a simple code to identify given linked list is palindrome or not by using stack. First take a Stack. Traverse through each node of the linked list and push each node value to Stack. Once the traversal & copying is done, iterate through linked list from head node again. In each iteration, pop one stack element and compare with node value in respective iteration. It is expected to match stack popped value with node value. In case of all matches, its a palindrome.

Any one element mismatch makes it not a palindrome.



```
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                                                                                                                                                                                    o ×
File Edit Format View Help
    // push all elements of the linked list into the stack Node node = head; while (node != null) {
       s.push(node.data);
       node = node.next;
     // traverse the linked list again
    node = head;
while (node != null)
    {
// pop the top element from the stack
       int top = s.pop();
       // compare the popped element with current node's data
       // return false if mismatch happens
if (top != node.data) {
      -. (cop != node.
  return false;
}
       // advance to the next node
node = node.next;
     // we reach here only when the linked list is palindrome
  public static void main(String[] args)
    Node head = new Node(1);
head.next = new Node(2);
     head.next.next = new Node(3);
                                                                                                                                  Ln 8, Col 1
                                                                                                                                                      100% Windows (CRLF)
                                                                                                                                                                                UTF-8
                                                                                                                                                           へ 信 🗖 🕬 ENG 20-05-2020
                                                             O 🗏
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```

