

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	Rohan Vashista BM
Sem & Sec	6 th Sem & B	USN:	4al17cs078
Online Test Summary			
Subject	CGV Test1		
Max. Marks	60	Score	53
Certification Course Summary			
Course	Full Stack Web development		
Certificate Provider	Udemy	Duration	20hrs
Coding Challenges			
Problem Statement: 1.We have a letter or a word then we need to add some letters to it and need to find out shortest palindrome. 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.			
Status: completed			
Uploaded the report in Github		yes	
If yes Repository name		https://github.com/Rohanvasista/Coding-activities	
Uploaded the report in slack		yes	

Online test details

10:26 AM

220KB/s 4G 30%



Rohan Vashista BM, your MCQ
result is ready Inbox



TechGig 2 days ago
to me ▾



TECHGIG

Hi Rohan Vashista BM,

You have scored **53 marks** in **MCQ**.

[See Assessment](#)

About The Assessment



**Computer Graphics and
Visualization-Test-1**

Round 1 ends on: 19 May,
2020

Warm Regards,
TechGig Team

2020 | TechGig | Terms of Use | Contact
Us

Times Center, FC - 6, Sector 16 A, Film City,
Noida - 201301, Uttar Pradesh, India

Follow Us on



Download
App

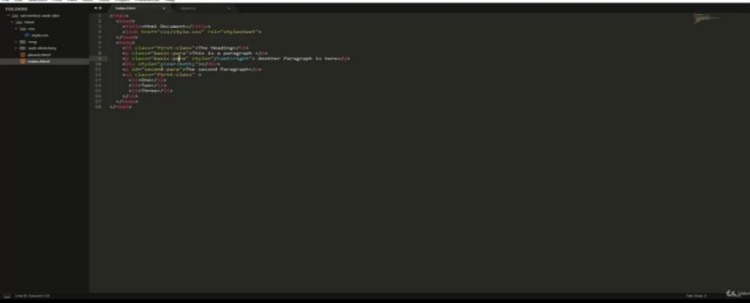


Online Certification Details

Completed modules

- Introduction
- HTML
- CSS

2:55 PM0.1KB/s4039%



LecturesMore

20

✓

HTML Head Tag

Video - 05:59 mins

Section 3 - CSS

21

✓

CSS Basic CSS

Video - 05:43 mins

22

✓

CSS External CSS

Video - 04:19 mins

23

✓

CSS Background and Border

Video - 09:21 mins

24

✓

CSS Text methods

Video - 04:42 mins

25

✓

CSS ID, Classes and Internal CSS

Video - 10:14 mins

26

✓

CSS Dimensions

Video - 09:09 mins

27

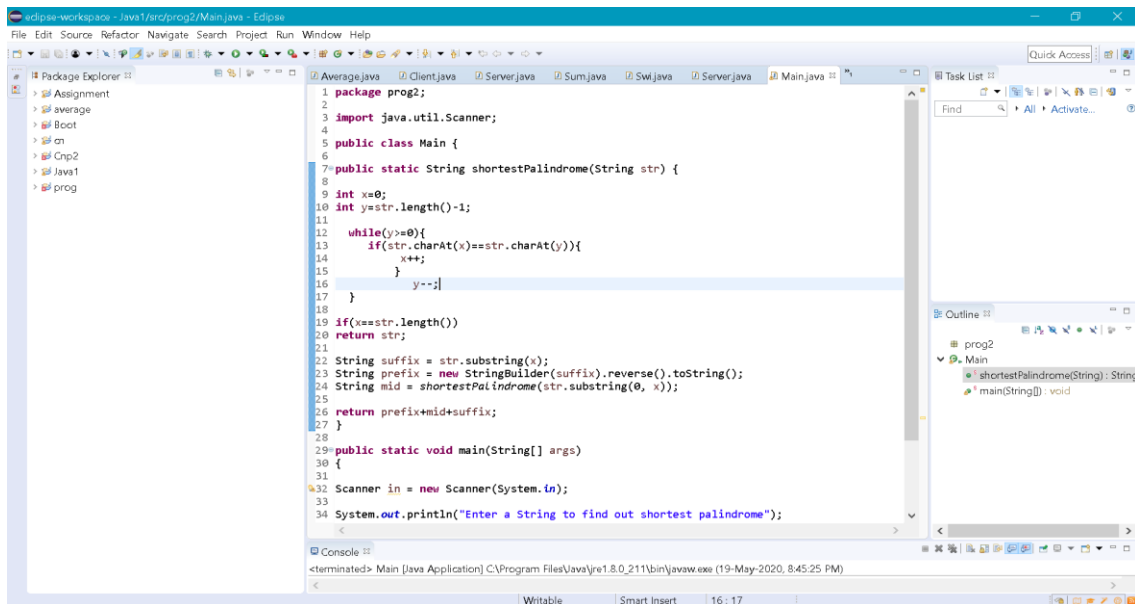
✓

CSS Floating Elements

Video - 13:54 mins

Coding Challenge Details

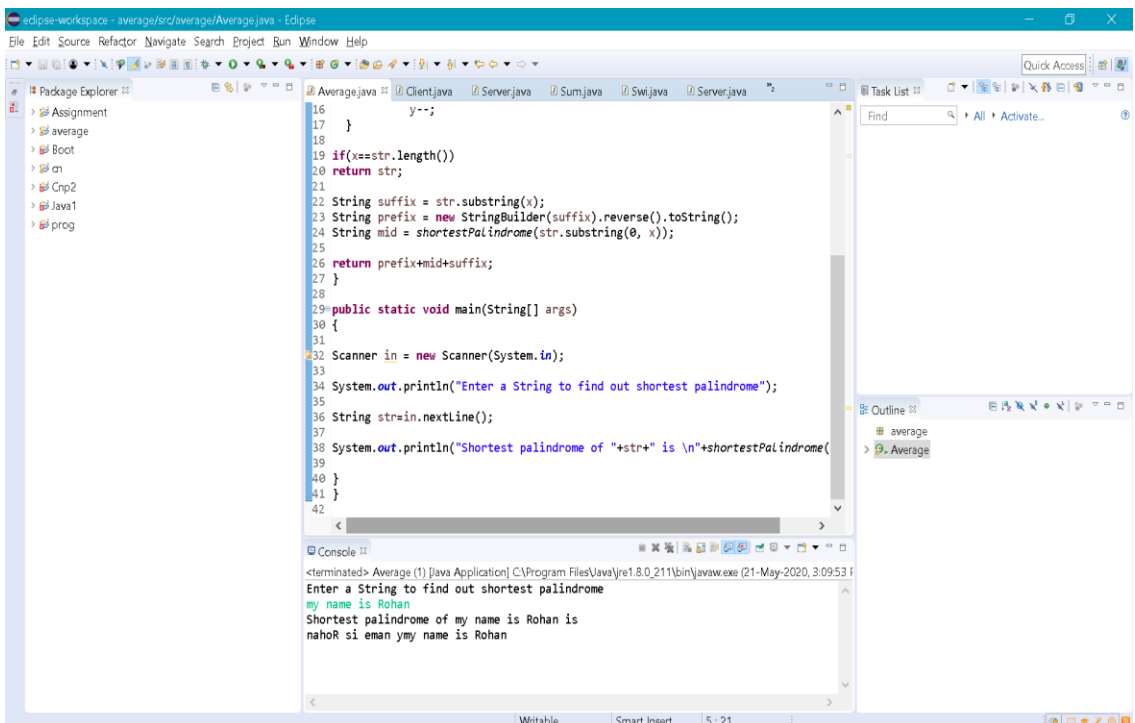
1. We have a letter or a word then we need to add some letters to it and need to find out shortest palindrome.



```
1 package prog2;
2
3 import java.util.Scanner;
4
5 public class Main {
6
7     public static String shortestPalindrome(String str) {
8
9         int x=0;
10        int y=str.length()-1;
11
12        while(y>=0){
13            if(str.charAt(x)==str.charAt(y)){
14                x++;
15                y--;
16            }
17        }
18
19        if(x==str.length())
20            return str;
21
22        String suffix = str.substring(x);
23        String prefix = new StringBuilder(suffix).reverse().toString();
24        String mid = shortestPalindrome(str.substring(0, x));
25
26        return prefix+mid+suffix;
27    }
28
29    public static void main(String[] args)
30    {
31
32        Scanner in = new Scanner(System.in);
33
34        System.out.println("Enter a String to find out shortest palindrome");
35    }
36 }
```

Console Output:

```
<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (19-May-2020, 8:45:25 PM)
```

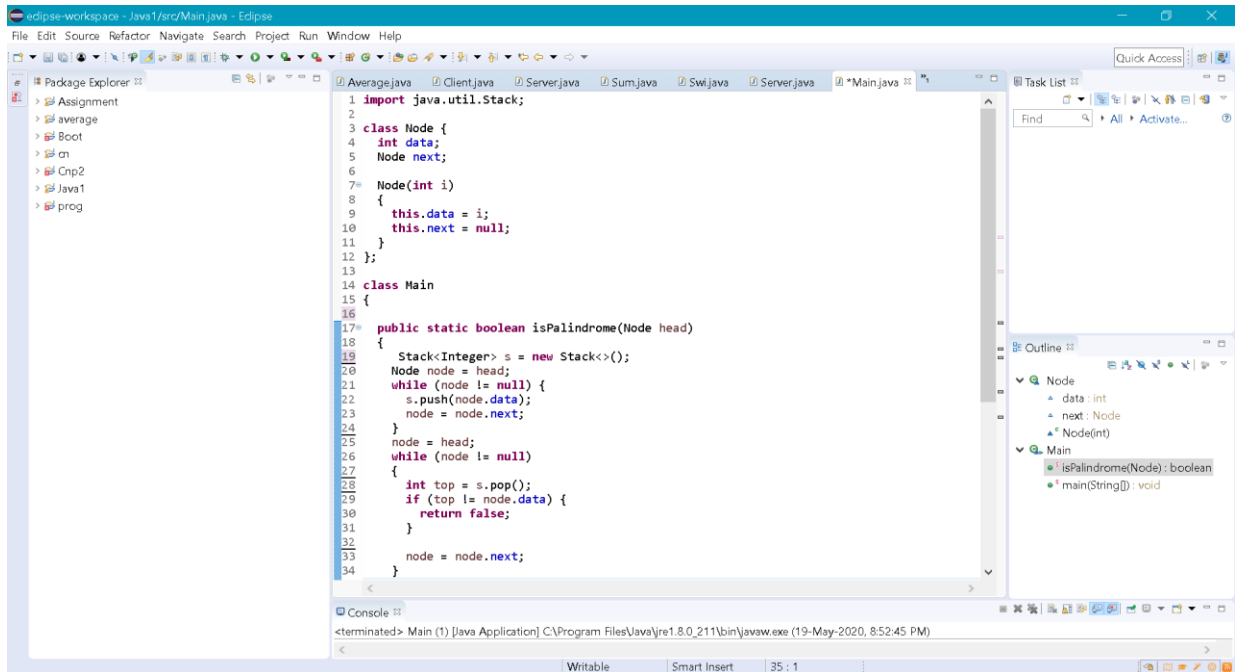


```
16        y--;
17    }
18
19    if(x==str.length())
20        return str;
21
22    String suffix = str.substring(x);
23    String prefix = new StringBuilder(suffix).reverse().toString();
24    String mid = shortestPalindrome(str.substring(0, x));
25
26    return prefix+mid+suffix;
27 }
28
29 public static void main(String[] args)
30 {
31
32    Scanner in = new Scanner(System.in);
33
34    System.out.println("Enter a String to find out shortest palindrome");
35
36    String str=in.nextLine();
37
38    System.out.println("Shortest palindrome of "+str+" is \n"+shortestPalindrome(
39
40    }
41 }
42 }
```

Console Output:

```
<terminated> Average (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (21-May-2020, 3:09:53 PM)
Enter a String to find out shortest palindrome
my name is Rohan
Shortest palindrome of my name is Rohan is
nahOR si eman ymy name is Rohan
```

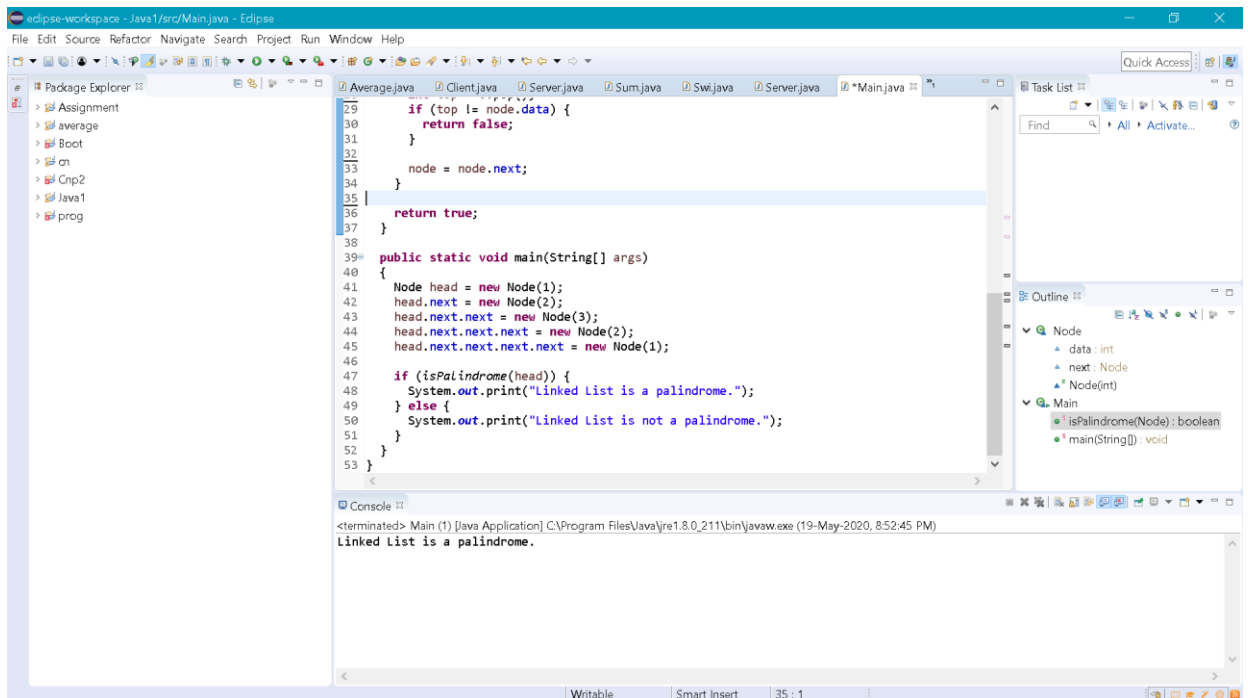
- 2.** Write a simple code to identify given linked list is palindrome or not by using stack, First take a Stack. Traverse through each node of the linked list and push each node value to Stack.



The screenshot shows the Eclipse IDE with a Java project named 'Java1'. The 'Package Explorer' on the left shows a package named 'prog' containing files 'average', 'Boot', 'Cnp2', 'Java1', and 'prog'. The 'Main.java' file is open in the editor, showing the following code:

```
1 import java.util.Stack;
2
3 class Node {
4     int data;
5     Node next;
6
7     Node(int i)
8     {
9         this.data = i;
10        this.next = null;
11    }
12 };
13
14 class Main
15 {
16
17     public static boolean isPalindrome(Node head)
18     {
19         Stack<Integer> s = new Stack<>();
20         Node node = head;
21         while (node != null) {
22             s.push(node.data);
23             node = node.next;
24         }
25         node = head;
26         while (node != null) {
27             int top = s.pop();
28             if (top != node.data) {
29                 return false;
30             }
31             node = node.next;
32         }
33     }
34 }
```

The 'Outline' view on the right shows the structure of the code: 'Node' (data: int, next: Node), 'Main' (isPalindrome(Node): boolean, main(String[]): void). The 'Console' view at the bottom shows the output: '<terminated> Main (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (19-May-2020, 8:52:45 PM)'.



The screenshot shows the Eclipse IDE with the same Java project. The 'Main.java' file is open, showing the completed code. The 'isPalindrome' method is now complete, and the 'main' method is added, which creates a linked list and calls the 'isPalindrome' method.

```
29         if (top != node.data) {
30             return false;
31         }
32     }
33     node = node.next;
34 }
35
36 return true;
37 }
38
39 public static void main(String[] args)
40 {
41     Node head = new Node(1);
42     head.next = new Node(2);
43     head.next.next = new Node(3);
44     head.next.next.next = new Node(2);
45     head.next.next.next.next = new Node(1);
46
47     if (isPalindrome(head)) {
48         System.out.print("Linked List is a palindrome.");
49     } else {
50         System.out.print("Linked List is not a palindrome.");
51     }
52 }
53 }
```

The 'Outline' view on the right shows the structure of the code: 'Node' (data: int, next: Node), 'Main' (isPalindrome(Node): boolean, main(String[]): void). The 'Console' view at the bottom shows the output: '<terminated> Main (1) [Java Application] C:\Program Files\Java\jre1.8.0_211\bin\javaw.exe (19-May-2020, 8:52:45 PM)' and 'Linked List is a palindrome.'