

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020	Name:	Nayan. P. Joshi
Sem & Sec	8 th Sem A	USN:	4AL16CS058
Online Test Summary			
Subject	BIG DATA ANALYTICS		
Max. Marks	30	Score	22
Certification Course Summary			
Course	Introduction to Full Stack Development		
Certificate Provider	Great learning academy	Duration	60hrs
Coding Challenges			
Problem Statement: a prg add some letters to it and need to find out shortest palindrome Write a simple code to identify given linked list is palindrome or not by using stack.			
Status: Solved			
Uploaded the report in GitHub		yes	
If yes Repository name		nayan1998	
Uploaded the report in slack		yes	

Largest Tech Community | Hacka x Introduction to Full Stack Develo x Inbox (267) - nayan19985june@ x , your IA Test one result is ready x +

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Vishal Nayak

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TECHGIG

Hi ,

You have scored **22 marks** in IA Test one.

[See Assessment](#)

About The Assessment



 Big Data Analytics

Round 1 ends on: 19 May, 2020

Warm Regards,
TechGig Team

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1. Introduction to Front end	3m	<input type="radio"/>
 Introduction to Front-end	Your Score: 1.50/2	
2. Creating HTML file	1m	<input type="radio"/>
 Creating an HTML File	Your Score: 1/1	
3. HTML Structure	3m	<input type="radio"/>
 HTML Structure	Evaluation Pending	
4. Paragraph Tags	5m	<input type="radio"/>
 Paragraph Tags	Evaluation Pending	
5. More on Head Tags	6m	<input type="radio"/>
 More on HEAD Tags	Your Score: 1/1	
6. Heading tag	8m	<input type="radio"/>

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03:18 PM
19-05-2020

Program1(ShortestPalindrome)

```
package pk;
import java.util.Scanner;
public class ShortestPalindromeDemo {
    public static String shortestPalindrome(String str) {

        int x=0;
        int y=str.length()-1;

        while(y>=0){
            if(str.charAt(x)==str.charAt(y)){
                x++;
            }
            y--;
        }

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

        String suffix = str.substring(x);
        String prefix = new StringBuilder(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
"+shortestPalindrome(str));

    }
}
```

Program2(Write a simple code to identify given linked list is palindrome or not by using stack.)

```
import java.util.Stack;
```

```
class Node {
```

```
    int data;
```

```
    Node next;
```

```
Node(int i)
{
    this.data = i;
    this.next = null;
}
};
```

```
class Main
{
    // Function to determine if a given linked list is palindrome or not
    public static boolean isPalindrome(Node head)
    {
        // construct an empty stack
        Stack s = new Stack<>();

        // 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)
{
    int top = s.pop();

    // compare the popped element with current node's data
    // return false if mismatch happens
    if (top != node.data) {
        return false;
    }

    node = node.next;
}
return true;
}

```

```

public static void main(String[] args)
{
    Node head = new Node(1);
    head.next = new Node(2);
    head.next.next = new Node(3);
    head.next.next.next = new Node(2);
}

```

```
head.next.next.next.next = new Node(1);
```

```
if (isPalindrome(head)) {
```

```
    System.out.print("Linked List is a palindrome.");
```

```
} else {
```

```
    System.out.print("Linked List is not a palindrome.");
```

```
}
```

```
}
```