


## **DAILY ONLINE ACTIVITIES SUMMARY**

<b>Date:</b>	19/5/2020	<b>Name:</b>	Vleena Mascarenhas
<b>Sem &amp; Sec</b>	8 <sup>th</sup> & B	<b>USN:</b>	4AL16CS121
<b>Online Test Summary</b>			
<b>Subject</b>	Big Data Analytics		
<b>Max. Marks</b>	30	<b>Score</b>	12
<b>Certification Course Summary</b>			
<b>Course</b>	Introduction to Ethical Hacking		
<b>Certificate Provider</b>	Great learning academy	<b>Duration</b>	6hrs
<b>Coding Challenges</b>			
<b>Problem Statement:</b> 1.To find shortest palindrome string 2.write a simple code to identify given linked list is palindrome or not by using stack			
<b>Status:</b> Solved			
<b>Uploaded the report in Github</b>		yes	
<b>If yes Repository name</b>		vleena	
<b>Uploaded the report in slack</b>		yes	

**Online Test Details: (Attach the snapshot and briefly write the report for the same)**



Challenge Over

by TechGig

Big Data Analytics

IA Test One

Your Highest Score 12    Max Score 30

Question Summary

The objective of this round is to screen students on the basis of their domain proficiency

Start Test

Summary

Skills

Big Data Hadoop

Ends On


19 May

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

CONTENT


ASSESSMENTS


Learning Videos



Career and Growth Ladder in Ethical Hacking


18m






Domains and Process Implementation under Ethical Hacking


54m






Ethical Hacking in Network Architecture-Demonstration

48m






Ethical Hacking in Web Applications-Demonstration

50m





Ethical Hacking on Mobile



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

```
1.package shortestpalindromeexample.java;
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));
```

```
}
```

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

```
// Data Structure to store a linked list node
```

```
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)
```

```
    {
```

```
        // 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) {
            return false;
        }

        // advance to the next node
        node = node.next;
    }

    // we reach here only when the linked list is palindrome
    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.");
    }
}
}

```