

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	Shruthi
Sem & Sec	8B	USN:	4AL16CS100
Online Test Summary			
Subject	BDA		
Max. Marks	30	Score	21
Certification Course Summary(Internship)			
Task	Study-1.Learning the concepts of ETL and ETL tools. 2.Creating an UI using an ETL tool.		
company	Gain-insights	Duration	9 hrs
Coding Challenges			
Problem Statement: 1)Program to add some characters to the given string or character and find out what will be the shortest palindrome string by using simple java program. 2)Java program to identify given linked list is palindrome or not by using stack.			
Status:completed			
Uploaded the report in Github		Yes	
If yes Repository name		shruthikamath	
Uploaded the report in slack		Yes	

ONLINE TEST:


TECHGIG

Hi Shruthi Kamath,

You have scored **21 marks** in **IA Test one**.

See Assessment

About The Assessment



Big Data Analytics
Round 1 ends on: 19 May, 2020

Warm Regards,
TechGig Team

CODING CHALLENGE:

PROGRAM 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));
}

```

PROGRAM 2 :

```

import java.util.Stack;
class Node {
int data;
Node next;
Node(int i)
{
this.data = i;
this.next = null;
}
};
class Main
{
public static boolean isPalindrome(Node head)
{

```

```

Stack s = new Stack<>();
Node node = head;
while (node != null) {
    s.push(node.data);
    node = node.next;
}

```

```

node = head;
while (node != null)
{
    int top = s.pop();
    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.");
}
}
```