

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	Pragathi h d
Sem & Sec	8 sem B sec	USN:	4AL16CS066
Online Test Summary			
Subject	BDA		
Max. Marks	30	Score	21
Certification Course Summary			
Course	Introduction to ethical hacking		
Certificate Provider	Great Learning	Duration	6.00hrs
Coding Challenges			
Problem Statement: 1) to check if two strings are anagrams 2) java program			
Status: Solved			
Uploaded the report in Github		Uploaded	
If yes Repository name		Pragathijain	
Uploaded the report in slack		yes	

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

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

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

Online coding challenge

Program 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": zyxzyz 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 simple java program.

```
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. 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, it's a palindrome. Any one element mismatch makes it not a palindrome.

```
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; }

}

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."); }

}
}
```

Certification course details

olympus.greatlearning.in/courses/12629/pages/ethical-hacking-in-network-architecture-demonstration?module_item_id=527656

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Courses

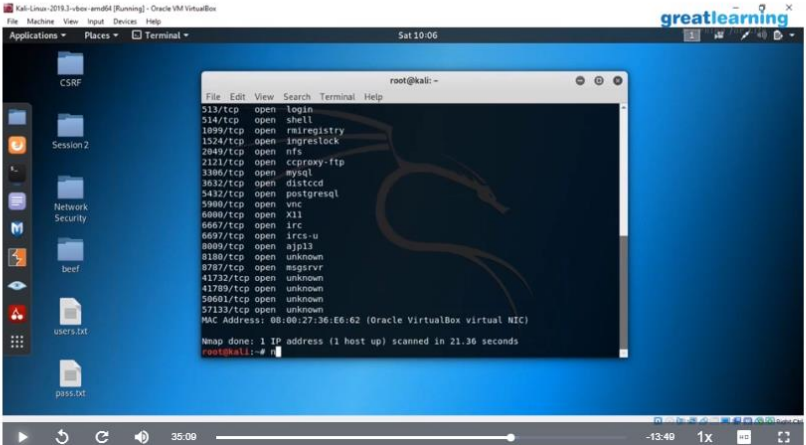
Courses / Introduction to Ethical Hacking / Ethical Hacking in Network Architecture-Demonstration

Content

Learning Videos

- Career and Growth Ladder in Ethical Hacking ✓
- Domains and Process Implementation under Ethical Hacking ○
- Ethical Hacking in Network Architecture-Demonstration ○
- Ethical Hacking in Web Applications-Demonstration ✓
- Ethical Hacking on Mobile Platforms-Demonstration ✓
- What is Ethical Hacking ○

Ethical Hacking in Network Architecture-Demonstration



Online test

Hi Pragathi H D,

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