

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020	Name:	Manikya K
Sem & Sec	8 th ,B	USN:	4AL16CS050
Online Test Summary			
Subject	Big data analytic		
Max. Marks	30	Score	18
Certification Course Summary			
Course	Introduction to ethical hacking		
Certificate Provider	Great learner academy	Duration	6 Hrs
Coding Challenges			
Problem Statement: prob1- <i>To add some letters for a given word or letter then to find the shortest palindrome possible</i>			
Prob2- <i>To check whether the given linked list is palindrome or not</i>			
Status: Solved			
Uploaded the report in Github		Yes	
If yes Repository name		manikya-20	
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)

1) Online Test Details:



The screenshot shows the 'Big Data Analytics' online test interface. At the top right, the user's email 'manikyak1998@gmail.com' and a 'Logout' link are visible. The main header features a 'Challenge Over' badge, a placeholder image, and the text 'by TechGig Big Data Analytics'. Below this, the 'IA Test One' section displays 'Your Highest Score 18' and 'Max Score 30'. A 'Question Summary' states: 'The objective of this round is to screen students on the basis of their domain proficiency'. A 'Start Test' button is present. To the right, a 'Summary' box lists 'Skills: Big Data Hadoop' and 'Ends On: 19 May'. Below the test details, a tabbed interface shows 'Details', 'Winners', 'FAQs', and 'My Submission'. The 'Details' tab is active, showing 'BDA first IA' and 'Rules'. The first rule states: '1. Any participant can attempt the assessment only 1 times, Only your best score counts!!'. At the bottom right, there is a watermark for 'Activate Windows' with the instruction 'Go to Settings to activate Windows'.

2) Certification Course Details:

Certified ethical hackers make an average annual income of **\$80,074**, according to [Payscale](#). The average starting salary for a certified ethical hacker is **\$95,000**, according to EC-Council senior director Steven Graham. The founder of NoWiresSecurity, Eric Geier, estimates a more conservative **\$50,000 to \$100,000 per year** in the first years of work depending on your employer, experience and education. Those with a few years of experience can pull **\$120,000 and upwards per year**, particularly those who work as independent consultants.

5/20/2020

Introduction to Ethical Hacking - Great Learning



 



Introduction to Ethical Hacking



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 Platforms-Demonstration
34m 

 What is Ethical Hacking
50m 

Quiz

 Ethical Hacking - Quiz 

Claim Your Course Certificate

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Ethical Hacking Career: Job Profiles

After attaining the much coveted CEH v10, an ethical hacker can try for the following roles:

- Information Security Analyst
- Security Analyst
- Certified Ethical Hacker (CEH)
- Ethical Hacker
- Security Consultant, (Computing / Networking / Information Technology)
- Information Security Manager
- Penetration Tester



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

Quiz

Career and Growth Ladder in Ethical Hacking

Security Market Outlook

Category	Year	Value (billion)
CYBER SECURITY EXPENDITURE	2015	\$75
	2020	\$170
	Total	\$29
CYBERCRIME COSTS	2015	\$500
	2019	\$2

Activate Windows

An ethical hacker finds a job in any company which has an internet facing side or anything to do with the web. These include college institutions like MIT and even private companies ranging from logistic services to data warehousing companies. Apart from these, you also get a chance to work for the military and top-secret intelligence gathering agencies like the CIA, Mossad, NSA.

Ethical Hacker Skill Set

A person with an ethical hacking career is expected to be proficient in database handling, networking, and operating systems and also have excellent soft skills as they need to communicate problems regarding security to the rest of the organization. Other than these generalized skillsets, an ethical hacker also have a good grasp on the following skills:

- Network traffic sniffing
- Orchestrate various network attacks
- Exploit buffer overflow vulnerabilities
- SQL injection
- Password guessing and cracking
- Session hijacking and spoofing
- DNS spoofing

3) Coding Challenges:

1. We have a Letter or a word then we need add some letters to it and need to find out shortest palindrome
example we take "S": S will be the shortest palindrome string.
If we take "xyz": zyxyz 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.
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, its a palindrome. Any one element mismatch makes it not a palindrome.

Prog1:

```
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));

}

```

Prog 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; // push
while (node != null) {
s.push(node.data);
node = node.next;
}
}
}

```

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

