DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19-05-2020**	**Name:**	**Pallavi I sutar**
Sem & Sec	**8th B**	**USN:**	**4al16cs061**

Online Test Summary

Subject	**Big data analytic**		
Max. Marks	**30**	**Score**	**17**

Certification Course Summary

Course	**Introduction to ethical hacking**		
Certificate Provider	**Great learner academy**	**Duration**	**6hrs**

Coding Challenges

Problem Statement: prob1-To add some letters for a given word or letter then to find the shortest palindrome possible
Prob2-To check whether the given linked list is palindrome or not

Status: solved

Uploaded the report in Github	**yes**
If yes Repository name	**Pav122**
Uploaded the report in slack	**yes**

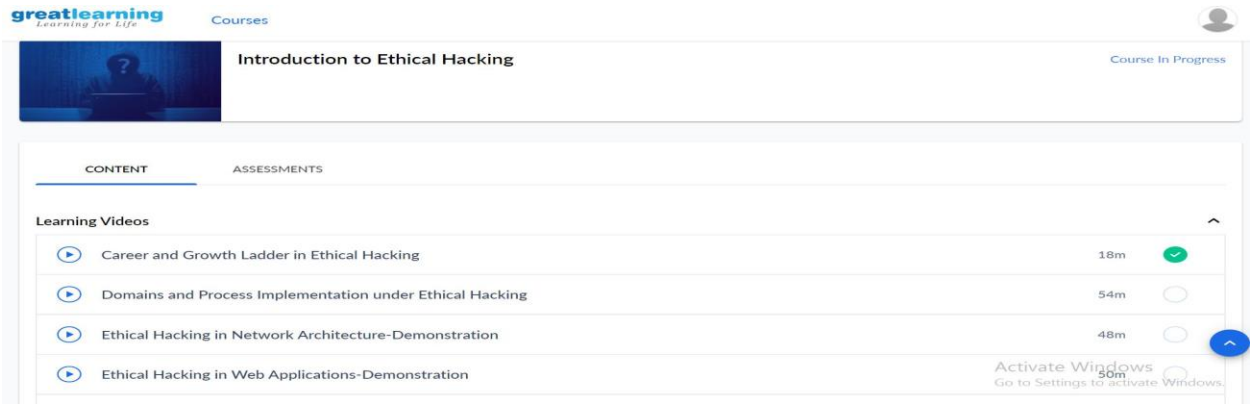
Online Test Details: (Attach the snapshot and briefly write the report for the same)

Certification Course Details:

Organizations can optimize IoT data, quickly and cost-effectively deriving its business value by developing expertise in ETL (extract, transfer, load) technologies, such as stream processing and data lakes.

At many organizations, though, this may lead to IT bottlenecks, long project delays, and data science being deferred. Result: IoT projects – in which predictive analytics data is meant to play a critical role in improving operational efficiency and spurring innovation – *still* haven't crossed the proof-of-concept threshold and definitely cannot demonstrate ROI.

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



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

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

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 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 = shorte
stPalindrome(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;
}
publi
c 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 pali
ndrome.");
} else {
System.out.print("Linked List is not a palindrome.");
}
}
}
```