DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020	Name:	Ijaz Ibrahim
Sem & Sec	4th A	USN:	4AL18CS026

Online Test Summary

Subject	Design and Analysis of Algorithms		
Max. Marks	30	Score	9

Certification Course Summary

Course	DEEP LEARNING		
Certificate Provider	MATHWORKS	Duration	2 hours

Coding Challenges

Problem Statement: Two java programs and 1 C programs	
Status: Executed	
Uploaded the report in Github	Yes
If yes Repository name	https://github.com/ijazibrahim/DailyReport.git
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)

Program1:

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```
1   /*1. We have a Letter or a word then we need add some letters to it and need to find out
2   shortest palindrome
3   For example we take &quot;S&quot;: S will be the shortest palindrome string.
4   If we take &quot;xyz&quot;: zyxyz will be the shortest palindrome string
5   So we need to add some characters to the given string or character and find out what will be
6   the shortest palindrome string by using simple java program*/
7
8
9   import java.util.*;
10  public class Main{
11  public static String shortestPalindrome(String str) {
12  int x=0;
13  int y=str.length()-1;
14  while(y&gt;=0){
15  if(str.charAt(x)==str.charAt(y)){
16  x++;
17  }
18  y--;
19  }
20  if(x==str.length())
21  return str;
22  String suffix = str.substring(x);
23  String prefix = new StringBuilder(suffix).reverse().toString();
24  String mid = shortestPalindrome(str.substring(0, x));
```

Program2:

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```
42
43  /*2. Write a simple code to identify given linked list is palindrome or not by using stack.
44  First take a Stack. Traverse through each node of the linked list and push each node value
45  to Stack.
46  Once the traversal &amp; copying is done, iterate through linked list from head node again.
47  In each iteration, pop one stack element and compare with node value in respective
48  iteration. It is expected to match stack popped value with node value.
49  In case of all matches, its a palindrome. Any one element mismatch makes it not a
50  palindrome.*/
51
52  import java.util.Stack;
53  public class Main {
54  public static void main(String[] a){
55  Node n1 = new Node(10);
56  Node n2 = new Node(20);
57  Node n3 = new Node(15);
58  Node n4 = new Node(20);
59  Node n5 = new Node(10);
60  n1.next = n2;
61  n2.next = n3;
62  n3.next = n4;
63  n4.next = n5;
64  boolean result = isPalindrome(n1);
65  System.out.println(&quot;Is it palindrome: &quot;+result);
66  }
```

Program3:

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```
 98
 99   /*3.A user will input two strings, and we find if one of the strings is a sub sequence of
100   the other. Program prints "yes" if either the first string is a sub sequence of the
101   second string or the second string is a sub sequence of the first string.
102   Assume that, the length of the first string is smaller than or equal to the length of the
103   second string.
104   An expected output of the program:
105   Input the first string
106   tree
107   Input the second string
108   Computer science is awesome
109   YES*/
110
111   #include &lt;stdio.h&gt;
112   #include &lt;string.h&gt;
113   int check_subsequence (char [], char[]);
114   int main () {
115     int flag;
116     char s1[1000], s2[1000];
117     printf(&quot;Input first string\n&quot;);
118     gets(s1);
119     printf(&quot;Input second string\n&quot;);
120     gets(s2);
121     if (strlen(s1) &lt; strlen(s2))
122        flag = check_subsequence(s1, s2);
```