

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020	Name:	Ijaz Ibrahim
Sem & Sec	4 th 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)

The screenshot shows a web browser window with multiple tabs. The active tab is titled "techgig.com/challenge/fpzg7jxbqhs6677utm_source=Mailer&utm_medium=TG_batch&utm_campaign=Act_contestskilltestresult_2020-05-19&email=ijazibrahim818@gmail.com&activ...". The page displays a "Challenge Over" banner for "DAA IA-1" by TechGig. Below the banner, there is a section for "IA Test-1" showing a highest score of 9 and a max score of 30. A "Question Summary" states: "Understanding the basic concepts of algorithms and its efficiency's." A "Start Test" button is visible. To the right, a "Summary" box lists "Skills: Algorithms, Basics Of Algorithm Design" and "Ends On: 19 May". Below this, a "Details" tab is selected, showing "Rules":

1. Any participant can attempt the assessment only 1 times, Only your best score counts!!
2. There will be no negative marking.
3. Time duration is 40 minutes.

The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray indicates 76% battery, 23:02, and 20-05-2020.

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

The screenshot shows a PDF document titled "MathWorks | Training Services Progress Report". The report details the completion of a "Deep Learning Onramp" course by Ijaz Ibrahim. The progress is listed as "100% complete (as of 13 May 2020)". The chapters and their completion status are:

- 1. Introduction 100%
- 2. Using Pretrained Networks 100%
- 3. Managing Collections of Image Data 100%
- 4. Performing Transfer Learning 100%
- 5. Conclusion 100%

The report also includes the release information: "Release: R2020a | Language: English". The Windows taskbar at the bottom shows the search bar, task view, and various application icons. The system tray indicates 76% battery, 23:05, and 20-05-2020.

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

Program1:

The screenshot shows a web browser window displaying a GitHub repository page for 'ijazibrahim / lockdown-online-coding'. The browser's address bar shows the URL 'github.com/ijazibrahim/lockdown-online-coding/edit/master/19-05-2020'. The repository page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and a file explorer showing the 'lockdown-online-coding' directory. The file '19-05-2020' is selected, and the code editor displays a Java program. The program's purpose is to find the shortest palindrome by adding characters to a given string. The code includes a main class 'Main' with a static method 'shortestPalindrome' that takes a string 'str' as input and returns the shortest palindrome. The algorithm involves checking if the string is already a palindrome; if not, it appends the reverse of the non-palindromic part to the end of the string to form the shortest palindrome.

```
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 "S" will be the shortest palindrome string.
4  If we take "xyz" 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>=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:

The screenshot shows a web browser with multiple tabs open, including 'Largest Tech Com', 'Editing lockdown-', 'TCS iON Digital Le', 'https://g41.tcsion', 'Check your email', 'Your account on A', and 'Slack | *cse_secon'. The address bar shows the URL 'github.com/ijazibrahim/lockdown-online-coding/edit/master/19-05-2020'. The GitHub interface displays the repository 'ijazibrahim / lockdown-online-coding' with 1 Unwatch, 0 Stars, and 0 Forks. The 'Code' tab is selected, showing a file editor for 'lockdown-online-coding / 19-05-2020'. The editor has tabs for 'Edit file' and 'Preview changes', with 'Edit file' active. The code is a Java program that uses a stack to check if a linked list is a palindrome. The code is as follows:

```
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 & 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(28);
57  Node n3 = new Node(15);
58  Node n4 = new Node(29);
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("Is it palindrome: " + result);
66  }
```

The Windows taskbar at the bottom shows the search bar, task view, and several application icons. The system tray on the right indicates a battery level of 71%, network status, and the date and time: 23:28, 20-05-2020.

Program3:

The screenshot shows a web browser window displaying the GitHub repository page for `ijazibrahim/lockdown-online-coding`. The browser's address bar shows the URL `github.com/ijazibrahim/lockdown-online-coding/edit/master/19-05-2020`. The repository page includes a search bar, navigation links for Pull requests, Issues, Marketplace, and Explore, and a header for the repository with 1 Unwatch, 0 Stars, and 0 Forks. Below the repository header, there are tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The 'Code' tab is selected, showing a file editor for `lockdown-online-coding / 19-05-2020`. The file editor displays a C program that checks if one string is a subsequence of another. The program includes comments in Arabic explaining the logic and a C code snippet. The code defines a function `check_subsequence` and a `main` function that takes user input and calls the function.

```
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 <stdio.h>;
112 #include <string.h>;
113 int check_subsequence (char [], char[]);
114 int main () {
115     int flag;
116     char s1[1000], s2[1000];
117     printf("&quot;Input first string&quot;");
118     gets(s1);
119     printf("&quot;Input second string&quot;");
120     gets(s2);
121     if (strlen(s1) &lt;= strlen(s2))
122         flag = check_subsequence(s1, s2);
```