DAILY ONLINE ACTIVITIES SUMMARY

Date:	**19-05-2020**	**Name:**	**Shaima Abdul Kader**
Sem & Sec	**8th,B**	**USN:**	**4AL16CS087**

Online Test Summary

Subject	**Big data analytic**		
Max. Marks	**30**	**Score**	**22**

Certification Course Summary

Course	**Deep Learning Onramp (MathWorks)**		
Certificate Provider	**ICT ACADEMY**	**Duration**	**2 Hrs**

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
Solution link : https://github.com/alvas-education-foundation/shaima

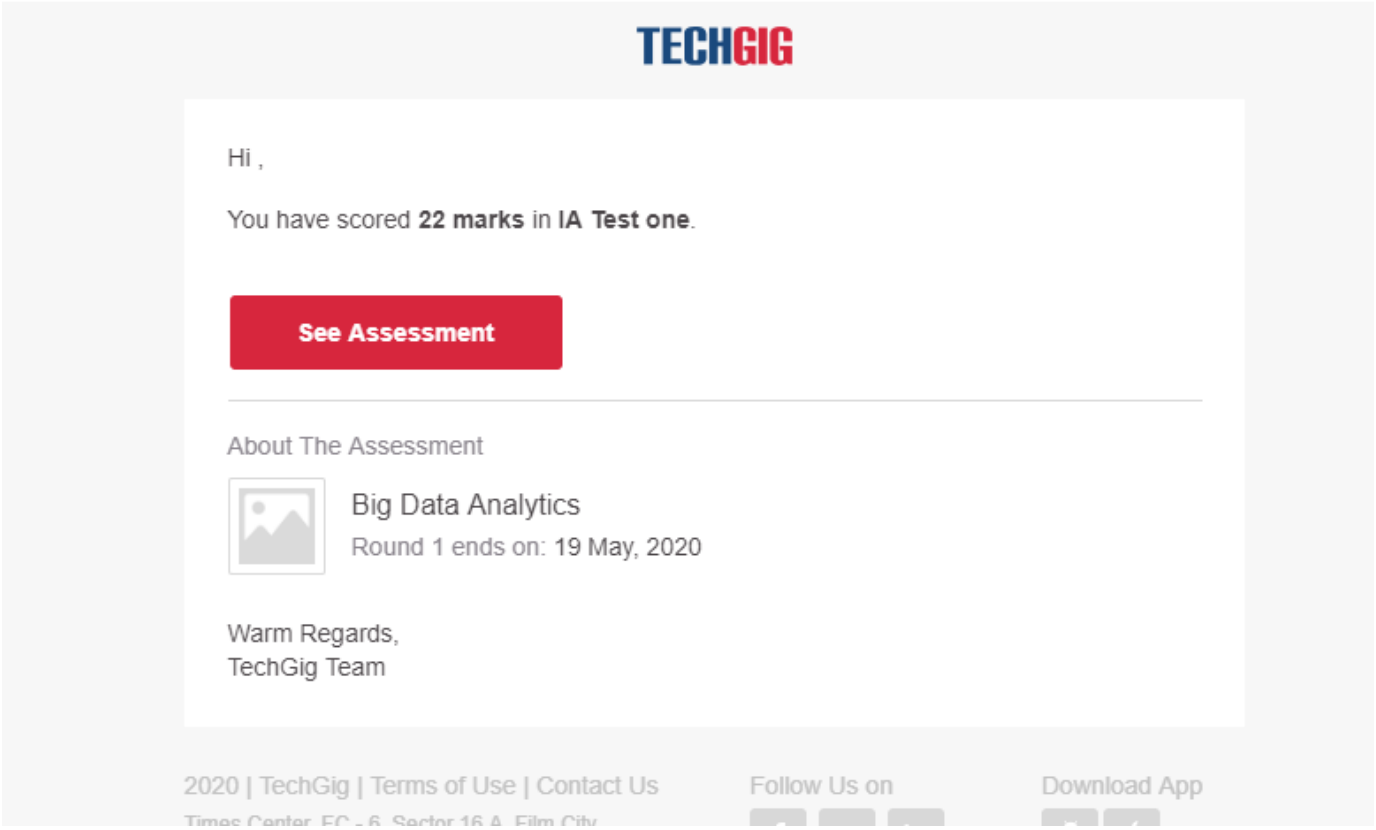
Uploaded the report in Github	**Yes**
If yes Repository name	**shaima**
Uploaded the report in slack	**Yes**

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

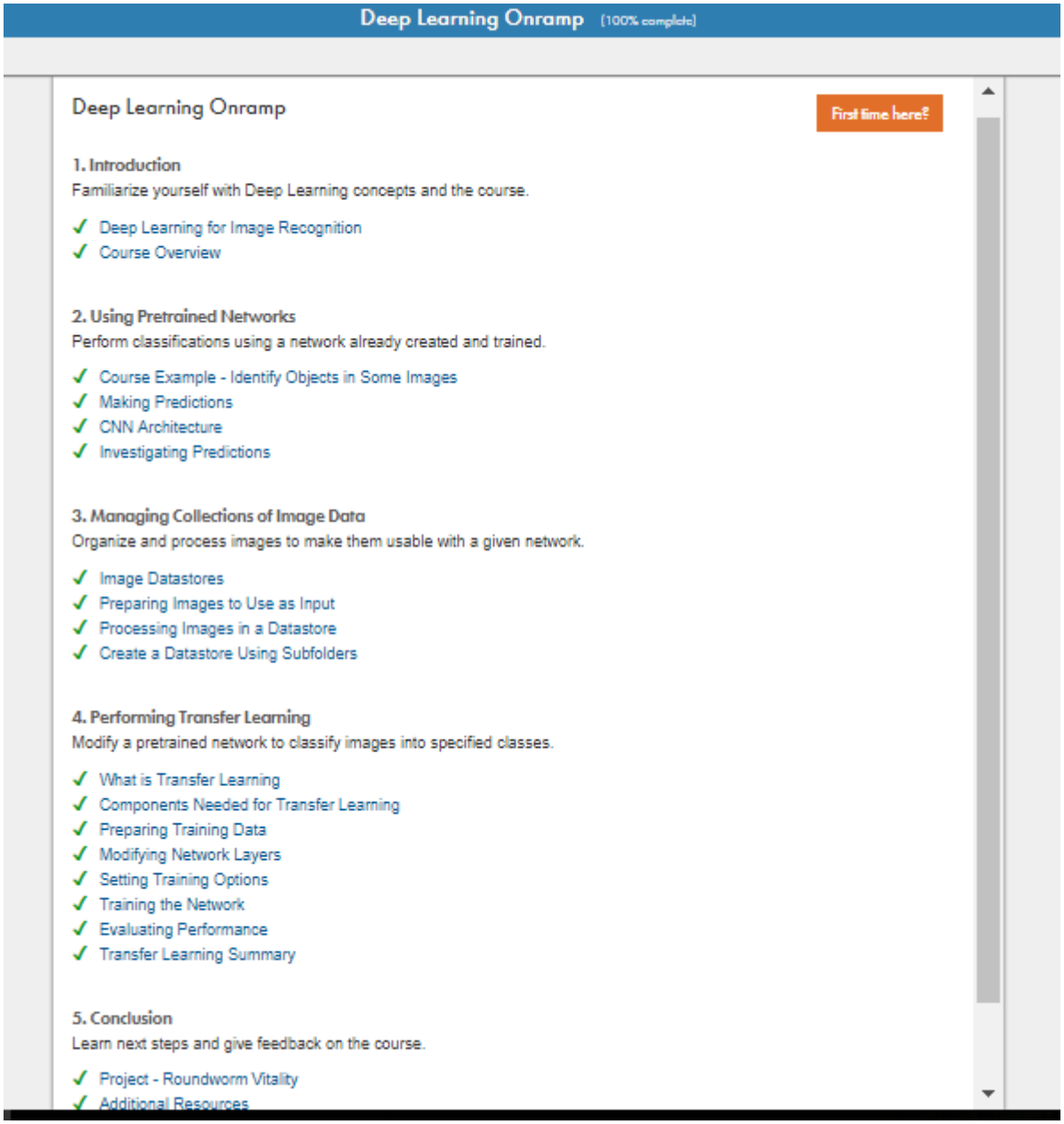
Certification Course Details: (Attach the snapshot and briefly write the report for the same)

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

1) Online Test Details:



2) Certification Course Details:


Deep Learning Onramp (100% complete)
Deep Learning Onramp
First time here?
1. Introduction
Familiarize yourself with Deep Learning concepts and the course.
✓ Deep Learning for Image Recognition
✓ Course Overview
2. Using Pretrained Networks
Perform classifications using a network already created and trained.
✓ Course Example - Identify Objects in Some Images
✓ Making Predictions
✓ CNN Architecture
✓ Investigating Predictions
3. Managing Collections of Image Data
Organize and process images to make them usable with a given network.
✓ Image Datastores
✓ Preparing Images to Use as Input
✓ Processing Images in a Datastore
✓ Create a Datastore Using Subfolders
4. Performing Transfer Learning
Modify a pretrained network to classify images into specified classes.
✓ What is Transfer Learning
✓ Components Needed for Transfer Learning
✓ Preparing Training Data
✓ Modifying Network Layers
✓ Setting Training Options
✓ Training the Network
✓ Evaluating Performance
✓ Transfer Learning Summary
5. Conclusion
Learn next steps and give feedback on the course.
✓ Project - Roundworm Vitality
✓ Additional Resources

Progress Report

Name: Shaima Abdul Kader
Course: Deep Learning Onramp
Progress: 100% complete (as of 04 May 2020)

Chapters

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

Release: R2019b | Language: English

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.

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.");
}
}
```