

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/5/2020	Name:	Afrah Saleem
Sem & Sec	8 th Sem B section	USN:	4AL16CS127
Online Test Summary			
Subject	Big Data Analytics		
Max. Marks	30	Score	20
Certification Course Summary			
Course	Practical java course: zero to one		
Certificate Provider	Udemy	Duration	4 hrs
Coding Challenges			
Problem Statement: 1)Add letters to given letter/word and find the shortest palindrome. 2) To check if given linked list is palindrome or not			
Status: Completed			
Uploaded the report in Github		Yes	
If yes Repository name		Afrah	
Uploaded the report in slack		yes	

Online Test Details:

, your IA Test one result is ready



Inbox



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to me ▾



TECHGIG

Hi ,

You have scored **20 marks** in **IA Test one**.

[See Assessment](#)

About The Assessment



Big Data Analytics

Round 1 ends on: 19 May, 2020

Warm Regards,
TechGig Team

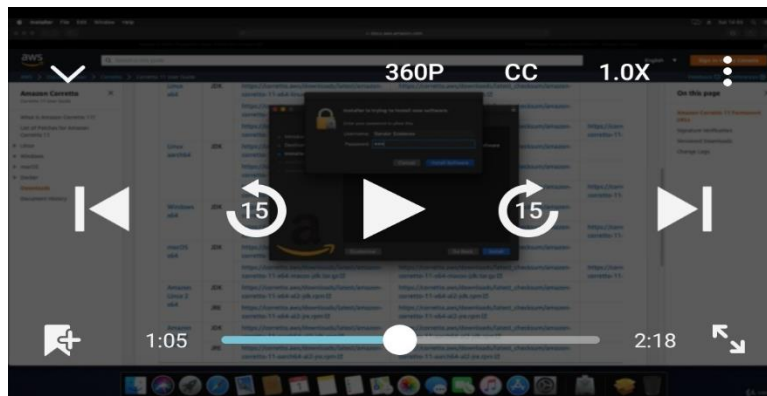
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Certification Course Details:



Lectures		More	
Section 2 - Environment Setup			
8	✓ Tools you'll need Video - 03:42 mins		
9	✓ JDK install for Windows Video - 02:07 mins		
10	✓ IntelliJ install for Windows Video - 02:50 mins		
11	✓ JDK install for MacOS Video - 02:18 mins		
12	✓ IntelliJ install for MacOS Video - 02:33 mins		
13	✓ JDK install for Linux Video - 03:02 mins		
14	✓ IntelliJ install for Linux Video - 02:25 mins		

Coding Challenges Details:

Program 1:

```
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));

    }
}
```

Program2

```
import java.util.Stack;

// Data Structure to store a linked list node
class Node {
    int data;
    Node next;

    Node(int i)
    {
        this.data = i;
        this.next = null;
    }
};

class Main
{
    // Function to determine if a given linked list is palindrome or not
    public static boolean isPalindrome(Node head)
    {
        // construct an empty stack
        Stack s = new Stack<>();

        // push all elements of the linked list into the stack
        Node node = head;
        while (node != null) {
            s.push(node.data);
            node = node.next;
        }

        // traverse the linked list again
        node = head;
        while (node != null)
        {
            // pop the top element from the stack
            int top = s.pop();

            // compare the popped element with current node's data
            // return false if mismatch happens
            if (top != node.data) {
                return false;
            }

            // advance to the next node
            node = node.next;
        }

        // we reach here only when the linked list is palindrome
        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.");  
    }  
}  
}
```