

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19-05-2020	Name:	Sinchana Kamath
Sem & Sec	8 th sem B sec	USN:	4AL16CS102
Online Test Summary			
Subject	BDA		
Max. Marks	30	Score	22
Certification Course Summary			
Course	Aws certificationcourse		
Certificate Provider	https://www.aws.training/	Duration	6 hours
Coding Challenges			
Problem Statement: java coding problem			
Status: completed			
Uploaded the report in Github		yes	
If yes Repository name		alvas-education-foundation/Sinchana Kamath	
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)



Certificate of Completion
sinchana S Kamath

Has successfully completed
**AWS Cloud Practitioner Essentials (Second Edition): AWS
Architecture**

A handwritten signature in black ink, appearing to read "Maurer Forrester".

Director, Training and Certification

30 minutes

Duration

19 May, 2020

Completion Date

Watched the videos in The Aws certification course

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

Coding was given n it was uploaded for github and slack

PROGRAM1

```
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));  
}
```

PROGRAM 2

```
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.");  
    }  
}
```