

DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/05/2020	Name:	AMEEN AHMED
Sem & Sec	8 A	USN:	4AL16CS009
Online Test Summary			
Subject	BDA		
Max. Marks	30	Score	17
Certification Course Summary			
Course	INTRODUCTION TO HADOOP		
Certificate Provider	GREAT LEARNING	Duration	30 MINS
Coding Challenges			
Problem Statement: 1) Shortest Palindrome program 2) Link List Palindrome Java program			
Status: COMPLETED			
Uploaded the report in Github		YES	
If yes Repository name		Ameen	
Uploaded the report in slack		YES	

Online Test Details:

BDA – Module 1 Test


TECHGIG

Hi ,

You have scored **17 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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Times Center, FC - 6, Sector 16 A, Film City,
Noida - 201301, Uttar Pradesh, India

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Certification Course Details:

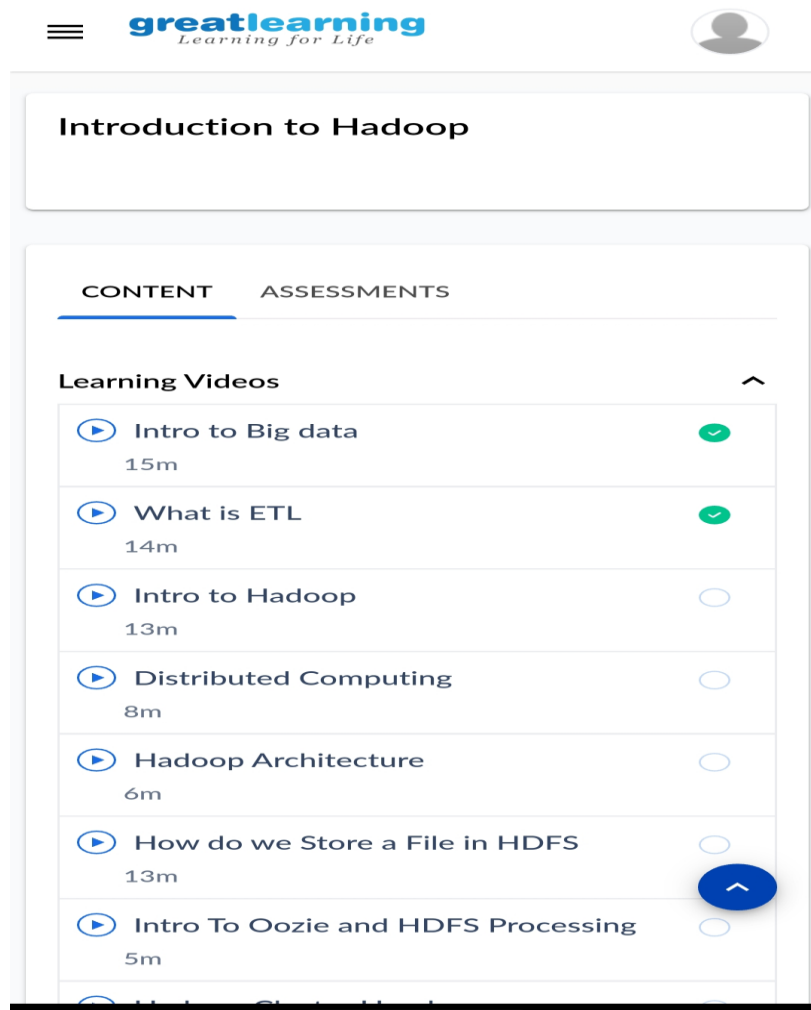
What is ETL?

ETL is short for extract, transform, load, three database functions that are combined into one tool to pull data out of one database and place it into another database. Extract is the process of reading data from a database. Transformation occurs by using rules or lookup tables or by combining the data with other data.

Why ETL important

Businesses have relied on the ETL process for many years to get a consolidated view of the data that drives better business decisions. Today, this method of integrating data from multiple systems and sources is still a core component of an organization's data integration toolbox.

- When used with an enterprise data warehouse (data at rest), ETL provides deep historical context for the business.
- By providing a consolidated view, ETL makes it easier for business users to analyze and report on data relevant to their initiatives.
- ETL can improve data professionals' productivity because it codifies and reuses processes that move data without requiring technical skills to write code or scripts.
- ETL has evolved over time to support emerging integration requirements for things like streaming data.
- Organizations need both ETL and ELT to bring data together, maintain accuracy and provide the auditing typically required for data warehousing, reporting and analytics.



Coding Challenges Details:

Program no: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));
    }
```

Program no:2

```
import java.util.Stack; 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.");  
  
}  
  
}  
  
}  
  
}  
  
}  
  
}
```