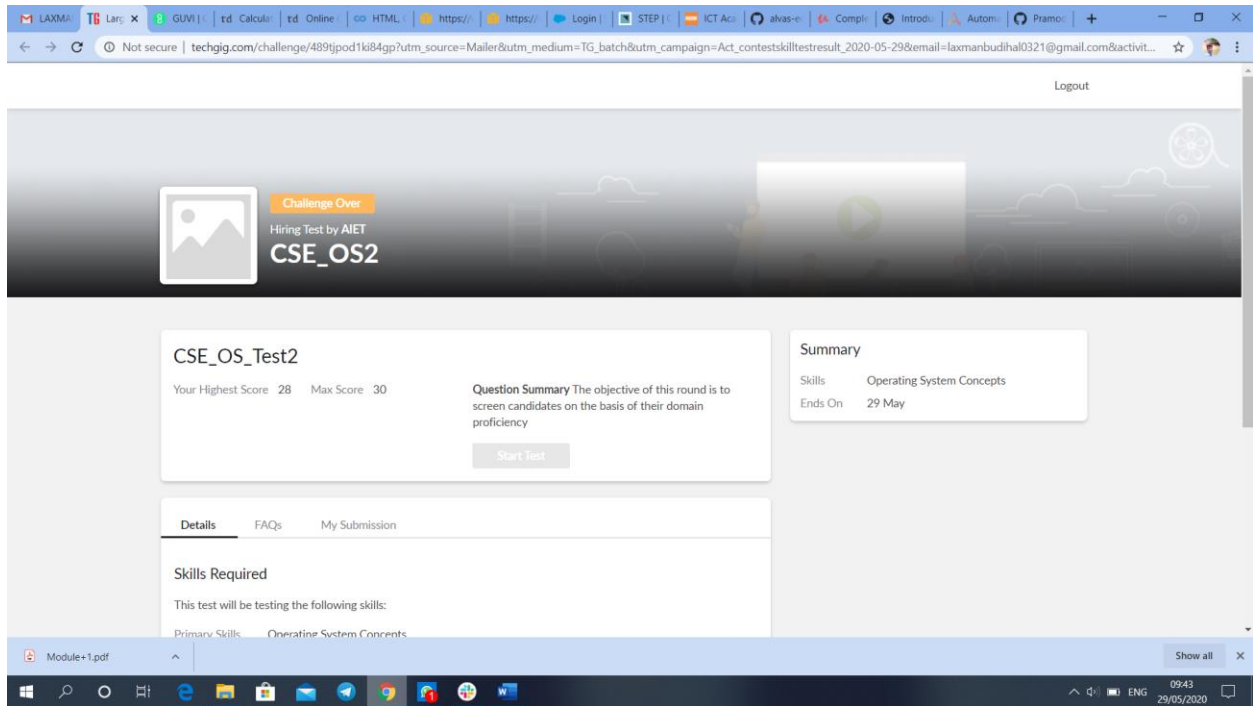


DAILY ONLINE ACTIVITIES SUMMARY

Date:	29/05/2020	Name:	Laxman Pundalik Budihal
Sem & Sec	4 rd sem (A sec)	USN:	4AL18CS043
Online Test Summary			
Subject	OS		
Max. Marks	30	Score	28
Certification Course Summary			
Course	Introduction to Cybersecurity		
Certificate Provider	CISCO	Duration	30 hours
Coding Challenges			
Problem Statement: Binary matrix			
Status: Completed			
Uploaded the report in GitHub		YES	
If yes Repository name		https://github.com/alvas-education-foundation/Laxman_Budihal	
Uploaded the report in slack		YES	

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



OS Internals was conducted. A total of 30 questions were there in which 30 of them were Multiple Choice Questions.

The above snapshot is the result sheet which was mailed to us by the Techgig team.

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

The screenshot displays a Cisco Academy course interface. The main content area is titled 'Nmap Port Scan Results' and shows a terminal window with the output of an Nmap scan. The scan was performed on the target IP 192.168.1.10. The output shows that the host is up, the OS is Linux 3.10-4.0, and the supported protocols are SYN, FIN, ACK, RST, SACK, and XMAS. The scan also shows that the host is running a service on port 80 (HTTP) and a service on port 443 (HTTPS). The scan results are displayed in a table with columns for Host, Port, State, and Service. The table shows that port 80 is open and running the service http, and port 443 is open and running the service https. The scan also shows that the host is running a service on port 22 (SSH) and a service on port 25 (SMTP). The scan results are displayed in a table with columns for Host, Port, State, and Service. The table shows that port 80 is open and running the service http, and port 443 is open and running the service https. The scan also shows that the host is running a service on port 22 (SSH) and a service on port 25 (SMTP).

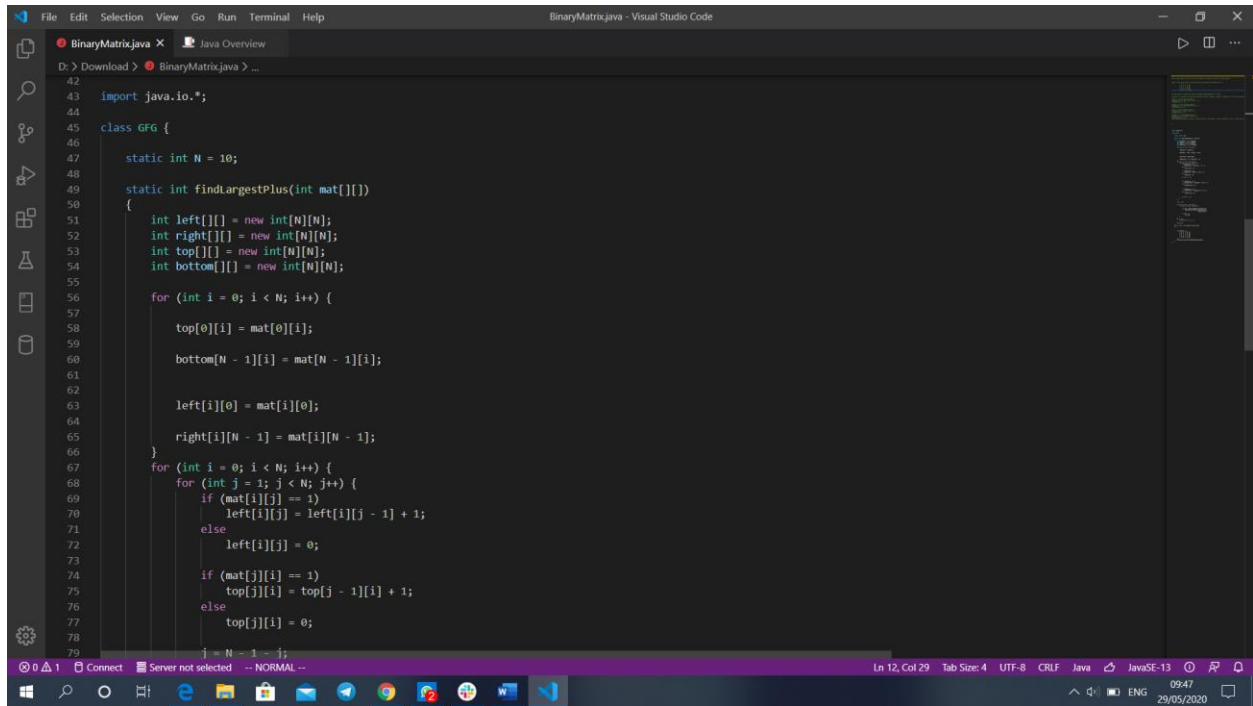
Port Scanning

Port-scanning is a process of probing a computer, server or other network host for open ports. In networking, each application running on a device is assigned an identifier called a port number. This port number is used on both ends of the transmission so that the right data is passed to the correct application. Port-scanning can be used maliciously as a reconnaissance tool to identify the operating system and services running on a computer or host, or it can be used harmlessly by a network administrator to verify network security policies on the network.

For the purposes of evaluating your own computer network's firewall and port security, you can use a port-scanning tool like Nmap to find all the open ports on your network. Port-scanning can be seen as a precursor to a network attack and therefore should not be done on public servers on the Internet, or on a

The today's topic is about firewalls and its types and port scanning etc.

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



```
42
43 import java.io.*;
44
45 class GFG {
46
47     static int N = 10;
48
49     static int findLargestPlus(int mat[][])
50     {
51         int left[][] = new int[N][N];
52         int right[][] = new int[N][N];
53         int top[][] = new int[N][N];
54         int bottom[][] = new int[N][N];
55
56         for (int i = 0; i < N; i++) {
57             top[0][i] = mat[0][i];
58             bottom[N - 1][i] = mat[N - 1][i];
59
60             left[i][0] = mat[i][0];
61             right[i][N - 1] = mat[i][N - 1];
62         }
63         for (int i = 0; i < N; i++) {
64             for (int j = 1; j < N; j++) {
65                 if (mat[i][j] == 1)
66                     left[i][j] = left[i][j - 1] + 1;
67                 else
68                     left[i][j] = 0;
69
70                 if (mat[j][i] == 1)
71                     top[j][i] = top[j - 1][i] + 1;
72                 else
73                     top[j][i] = 0;
74
75                 j = N - 1 - j;
76             }
77         }
78     }
79 }
```

The question I took to code is: Binary Matrix