

DAILY ONLINE ACTIVITIES SUMMARY

Date:	02-06-2020	Name:	Manikya K
Sem & Sec	8 th ,A	USN:	4AL16CS050
Online Test Summary			
Subject	Not Conducted		
Max. Marks	-	Score	-
Certification Course Summary			
Course	1) Introduction to ethical hacking 2) Introduction to cyber security		
Certificate Provider	Great learner academy	Duration	Ethical hacking - 6 Hrs Cyber Security - 7 Hrs
Coding Challenges			
Problem Statement: c++ prog to find sum of digits until the number is a single digits			
Status: Solved			
Uploaded the report in Github		Yes	
If yes Repository name		manikya-20	
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 sam

1) Certification Course Details:

A) Introduction to ethical hacking:



B) Introduction to Cyber Security:

The screenshot shows the Great Learning website interface. At the top, there's a navigation bar with 'greatlearning Learning for Life', 'Home', 'Live Sessions', 'Certificates', and a 'My Courses' button. Below this, a breadcrumb trail reads 'Courses / Introduction to Cyber security / Secure System Design'. The main content area is titled 'Secure System Design' and features a sidebar on the left with a 'Content' menu. The menu includes 'Learning Videos' (with a list of topics: Blockchain in Cybersecurity, Career and Industry Landscape, Governance and Risk, Introduction to Cryptography, Secure System Design (highlighted), Threats and Vulnerabilities, and What Is Cybersecurity) and a 'Quiz' section. The main content area displays the title 'Security goals and its implementation' and lists two bullet points: 'Authentication:- It is the process of giving individuals access to system objects based on their identity' and 'Authorization:- It is the function of specifying access rights/privileges to resources.' Below these are two icons: one for 'Authentication' (labeled 'Who you are') and one for 'Authorization' (labeled 'What you can do'). The Great Learning logo is in the top right corner of the content area, and an 'Activate Windows' watermark is visible in the bottom right corner.

We have divided each set of principles into five categories, loosely aligned with stages at which an attack can be mitigated:

- **Establish the context**
Determine *all* the elements which compose your system, so your defensive measures will have no blind spots.
- **Making compromise difficult**
An attacker can only target the parts of a system they can reach. Make your system as difficult to penetrate as possible
- **Making disruption difficult**
Design a system that is resilient to denial of service attacks and usage spikes
- **Making compromise detection easier**
Design your system so you can spot suspicious activity as it happens and take necessary action
- **Reducing the impact of compromise**
If an attacker succeeds in gaining a foothold, they will then move to exploit your system. Make this as difficult as possible

Courses / Introduction to Cyber security / Threats and Vulnerabilities

Content

Learning Videos ^

- Blockchain in Cybersecurity ✓
- Career and Industry Landscape ✓
- Governance and Risk ✓
- Introduction to Cryptography ✓
- Secure System Design ✓
- Threats and Vulnerabilities ✓
- What Is Cybersecurity

Quiz v

Claim Your Course Certificate v

<< Threats and Vulnerabilities

GitHub DDoS attack



One of the largest **Distributed Denial of Service** attack that put **GitHub** offline for around **10 minutes**.

[1] A DDoS attack works on the premise of bringing down websites and web based services by bombarding it with unprecedented amount of traffic that results in service and infrastructure meltdown.

With reference to a blogpost, this was referred to as “memcaching” – a distributed system built to amplify traffic volumes towards GitHub

[1] For more info, check out: techcrunch.com

Activate Windows

Go to Settings to activate Windows

! How would you rate this video ★★★★★

Mistakes happen, even in the process of building and coding technology. What’s left behind from these mistakes is commonly referred to as a bug. While bugs aren’t inherently harmful (except to the potential performance of the technology), many can be taken advantage of by nefarious actors—these are known as vulnerabilities. Vulnerabilities can be leveraged to force software to act in ways it’s not intended to, such as gleaning information about the current security defenses in place.

Once a bug is determined to be a vulnerability, it is registered by MITRE as a **CVE**, or common vulnerability or exposure, and assigned a Common Vulnerability Scoring System (CVSS) score to reflect the potential risk it could introduce to your organization. This central listing of CVEs serves as a reference point for **vulnerability scanners**.

2) Coding Challenges:

```
#include <iostream>
using namespace std;

int main()
{
    int number = 147; //Any number.
    int res;

    if(number)
        res = number % 9 == 0 ? 9 : number % 9 ;
    else
        res = 0;

    //print the result
    cout<<res;

    return 0;
}
```