INTRODUCTION

The Fourth Industrial Revolution describes the boundaries between physical, digital and biological world which makes its way more advance in Artificial intelligence (Ai), robotics, the Internet of Things (IoT), genetic engineering, quantum computing and 3D printing. The 4th IR creates a new era of innovation in technology which gives opportunity to help everyone to create an inclusive, human-centred future.

WHAT IS CYBERSECURITY?

Cybersecurity refers to a system which contains a set of techniques, used to protect computers, networks, programs and data from attacks, danger, damage or unauthorized access.

WHY IS CYBERSECURITY IMPORTANT?

·Cybersecurity is important because it can secure our system from virus attack.
·Protects data using encryption
·Without cybersecurity program, one can easily become target for cybercrimes

HOW IS CYBERSECURITY IMPLEMENTED?

1)Recognize the problem
2)Evaluate and analyse the problem
3)Develop a patch that solves the problem

WHAT IS CIA TRIAD?

·Is a model designed as a guide for companies and organizations to form their security policies
·CIA stands for Confidentiality, Integrity and Availability
·Confidentiality – protects personal information about clients
·Integrity – protects information from being modified by unauthorized parties
·Availability – authorized party able to access information in a specified location and in correct format when needed

EXAMPLE

1)Critical Infrastructure Cybersecurity- secure the systems that have critical infrastructure
2)Network security- protects computer networks from targeted attackers and opportunistic malware
3)Cloud security- provides cloud computing platform, where users can store and monitor data by implementing a security tool
4)Internet of Things security- implementing IoT security in any system will provide insightful analytics, legacy embedded systems and secure network
5)Application security- designed to detect the sensitive data set and secure them. Eg: Anti-virus Program

TYPES OF CYBER ATTACKS

·Malware
·Phishing
·Password attacks
·Man in the middle
·DDoS

REFLECTION

From the cybersecurity information, we as a internet user in daily life should be aware of cyberattacks. Hackers are becoming smarter these days as we can see that the cyber-attacks are evolving day by day. Cybersecurity helps us to protect our data by providing different types of security which helps in reducing the cyber attacks among the users. Therefore, we should utilize all the cybersecurity resources available and not be ignorant about cyber issues although it is small. Improving ourselves along with the cybersecurity will definitely help to prevent incidents.

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