What is cyber security?

Cyber security is practice to secure systems, networks and programs from digital attacks. These cyberattacks are usually aimed at accessing, changing, or destroying sensitive information.

Types of cyber security threats:

* Phishing :-It is the practice of sending emails that resemble emails from reputable sources. The aim is to steal sensitive data like credit card numbers and login credentials.
* Ransomware:- Ransomware is a type of malicious software. It is designed to extort money by blocking access to files or the computer system until the ransom is paid
* Malware:- Malware is a type of software designed to gain unauthorized access or to cause damage to a computer
* Social engineering:-Social engineering is a manipulation technique that exploits human error to gain private information, access, or valuables
* Man-in-the-middle attack:- When criminals interrupt the traffic between a two-party transaction
* Zero-day attack:- A zero-day is a computer software vulnerability either unknown to those who should be interested in its mitigation or known and without a patch to correct it.

What is Hacking?

Hacking is the process of identifying and exploiting weakness in a system or a network to gain unauthorized access to data and resources.

What is Ethical Hacking?

Ethical hacking or sometimes called penetration testing is an act of intruding/penetrating into a system or network to find out threats, vulnerabilities in those systems which a malicious attacker may find and exploit causing loss of data, financial loss or other major damage.

Who is Ethical Hacker?

An Ethical Hacker is a skilled professional who has excellent technical knowledge and skills and knows how to identify and exploit vulnerabilities in target systems. He works with the **permissions of owner** of system.

Types of Hackers

* White Hat Hacker:- White Hat hackers also known as Ethical hackers attacks a system or network with permissions of owner.
* Black hat Hacker:- Black hat hackers are those individuals who attacks a system with malicious intent or to cause harm to data or networks of system.
* Grey hat Hacker:- Grey hat hacker are hackers which hack systems without consent but with no malicious intent to cause any harm.