***Module 28: Information Gathering***

1. **What are the types of hacker?**

* The main types of hackers
* White hat hackers. White hat hackers engage in legal hacking to improve digital security for those who contract them. ...
* Black hat hackers. ...
* Gray hat hackers. ...
* Red hat hackers. ...
* Blue hat hackers. ...
* Script kiddies and green hat hackers. ...
* Hacktivists. ...
* State/nation-sponsored hackers.

1. **Explain in brief - Ethical hacking and cyber security.**

* Ethical hacking is the practice of testing a computer system, a network or an application to find security vulnerabilities that could be exploited by criminal hackers. Ethical hackers use the same tools and techniques as criminal hackers, but they do so with permission from the owner of the system being tested.

1. **Explain Foot printing Methodology**

* Footprinting, also known as fingerprinting, is a methodology used by penetration testers, cybersecurity professionals, and even threat actors to gather information about a target organization to identify potential vulnerabilities. Footprinting is the first step in penetration testing.

1. **Find basic information using Google advance search operator and Pipl search**

* YES

1. **Find vulnerability tool and check open port and service.**

* Nmap. Nmap (short for Network Mapper) is one of the most popular free open-source port scanning tools available. ...
* Wireshark. Wireshark is a free network sniffing tool that's used to detect malicious activity in network traffic. ...
* Angry IP Scanner. ...
* NetCat. ...
* Advanced IP scanner.