

Module 6 goes over Internet Security and many of the things involved in it. One of those things is the study of securing information and cryptography. Encryption is one of the most common cryptographic processes in which is uses an algorithm to produce a string of characters that are unreadable to those who do not have the key to it. The key would be a part of a process called decryption which is decrypting the text and returns it to a language that is readable. The way they could be encrypted is also pretty interesting. One way is with a private-key encryption which uses a private key that is only known by the sender and given to the recipient to open whatever is being sent, and there is public-key encryption which uses a private key, which is only known to the sender, and a matching public key which is known to the public. The public and private key must be of a matching pair to properly open something otherwise it will not be able to be read.

The Module also goes over some ways a computer is protected from viruses. One of those ways is through a firewall. A firewall is used to protect a computer port by controlling incoming traffic into it. It is mostly used for all incoming traffic, but it can be used to prevent outgoing traffic as well. For an example, this is so when you download an app, you can control whether that app can connect to the internet or not. Firewalls are incredibly useful for protecting our computers and our information.