- (1) Vuln erability is weakness in a system (ex :) you don't have a password to your account)
 - e Threat is any even that can potentially violate security and cause harm (ex: weak password or phishing attacks)
 - control is the processes that you have to protect from any vulnebarilities they prevent attacks or just detect them.
- Yes I use ESET NOD32 Antivitus
 which protects my laptop from all types
 of malware (viruses, ransonware, worms
 and spyware).
 - 3) Attackers might want to take your credit card information, or steal your idendity. Attackers can be thisever or a large group of people/hackers specialized in that.

Passive threaks are those who don't affect the system resources.

(ex: is you're monitoring internet traffic but just to see how traffic but just to see how things are, like what websites

people visit)

A dive attace threats is when you try to

Change System resources or affect their

operation.

(ex: if you steal someone's identity or madify their information)

(Expirimate users)

example of control method to adrieve it of Bace ID when opening a phone or authentification.

I: integrity: don't change or destroy documents

ex. of control to do that: Signature agreeing to that term

A: Availability = system should be awailable when

Needed ex of controls: Kuping hardware

up to date or monitoring bandwidths

up to date or monitoring bandwidths

- b) i) Integrity
 ii) Confidentiality
 iii) Availability
- c) For example if you log in as your teacher's identity to their account (wasidentiality) and change the grades of the Dass (integrity).
- (6) Here we use a pin to access our own account which is why it is confidential when we deposit for example 100\$, and the system says that we only deposited so \$ (so balance shows 500 instead of 100\$) that's an example of integrity breaking
 - Also we want the ATH to give us the anount of money we want to withdraw spread availability

Fey principles an: Economy of mechanism, open design, bail - safe defaults, complete mediation, seperation of privilege, least privilege and phrychological acceptability.

Least privileges = every process or user should operate with the bare minimum privileges necessary.

(ex: the mail means man doesn't need to know for what is in the mail, he just needs the addresses).

Fail sake concept: access de cisions should based on permission. Hake denying access default until access is explicitly given. (ex: to access your phone, you need a password it you don't get the password right it doesn't bet you in. After a certain time if you still put it wrong, it blocks).

(8) I agree with this, I litterally used this as an example in question & before reading this that a situation

where a hacker tries many wombinations to access your account. In this case, if the account is disabled after 3 fails he has no more attempts to try all the other possible armsinations. which is good as it prevents attacks. Even if you're the real person trying to login but fail to do so after 3 trying to login but fail to do so after 3 trying to login but fail to do so after 3 times, it gets block. So here the default is to deny access with you get it right is to deny access with you get it right

(9) In summary, the paragraph talk about effics. Fist, the difference between laws and ethics is highlighted. A law is undisputable, in the sense that you can't escape it, even if you think that you're being falsly accused. Ethics are subjective; two people might have different opinions as to whether a ortain situation or action is right or wrong. Then we proceed to say that ethics there are not the Seme as religion. Also, ethies are not universal since people have different fercephons of it. In science, ethics is not as supported Since scientists want clear, un ambiguous answers, which is why it is rejected.

However, othics are unevitable fince in many Situations there are no clear consumers as they can be perceived differently from different people. Then the author goes on to give examples of thical principles, like the teleogrical theory or egoism.

The issue in software vulneration lity
reporting is whether you should an report vulnerabilities
that were not there, or report some but
not all vulnerabilities to use the additional
ones for future loverage against the elient.
In this case it depends on what your
basing your judgement on, potential for
good or potential for harm.