

Q.1: generation and it falls in the

[Business](#), [Marketing](#)



Q.

1: Battle field 1 Cracking: Kind of Fraud: Cracking a game or software is known as software cracking. It falls in the category of Computer Fraud and Abuse Act (CFAA). This law is included in Comprehensive Crime Control Act of 1984.

Software cracking is the modification of software to remove undesirable features which are considered undesirable by the person cracking the software, especially copy protection features (including protection against the manipulation of software, serial number, hardware key, date checks and disc check). So, making a crack as Skidrow did is the illegal attempt which led the company to the failure in their revenue generation and it falls in the CFAA. Q.

2: Google: (protecting data and privacy of users) Physical security to protect data integrity: As they distribute data to multiple centers so in case of any accident (fire, disaster and etc.) the data can be shifted to protected networks/centers. Every data is monitored 24/7. The access to data is in tight security.

Custom hardware with security at its core: The level of security at Google started with their hardware including vendors, chips of custom design. Google allows you to authenticate security at every level. Encryption to keep data private and protected: Google provides end-to-end encryption plus data is secured by HTTPS and TLS (transport layer security). It also encrypts emails and cookies by default. Strong controls to limit access to trusted personnel: Google limits your business data to Google personnel who need this to do their jobs. In case of working with third party (customer support vendors) to

provide google services, an assessment is conducted to ensure the level of security, protection and privacy which is needed to receive access to your business profile.

Q. 3: Payroll: Quality Concerns addressing to Failure: Assessing quality: The quality of the software is followed by the SEEPP principles. If it results in failure the protection of the user are in Risk. Accuracy of Information: Information should be accurate. Complying with Legal requirements: The system should follow the rules and regulations of the local, state and federal government to avoid failures. If it's failing in this the system is going to be failed badly.

Ensure Data Security: Ensure data security to the stakeholders e. g. disclose any danger related to software. If it's not secure it will lead to the failure.

Professional Ethics and Practices:

- Be fair and truthful in all matters.
- Always put the public's interests first.
- Donate professional skills to good causes.
- Accept responsibility for your own work.
- Ensure adequate software specification.
- Understand specifications fully.
- Ensure you are suitably qualified.
- Ensure all goals are achievable.
- Ensure proper methodology.
- Ensure resources are authentically approved.
- Reject bribery.
- Do not accept secret payments from the client.

Q. 4: Anti-lock Braking System: Quality Concerns addressing to Failure

The safety aspect: The safety aspect of this system is clear, public safety is directly involved through the lives of the passengers of the automobile and other automobiles on the road and pedestrians. If it fails in safety it will lead people to death.

Visibility of the System: If a system is invisible to the user that requires knowledge of the physical characteristics of

the automobile, braking system, driving environment and safety that will also lead the system to failure. A Good Engineer: In this mix disciplines software an engineer will require knowledge of the software side of the system as well as the physical hardware, sensors and controls. Missing one the above mentioned task will definitely heading towards system failure.

Professional Ethics and Practices:

- Disclose any software-related dangers
- Approve only safe, well tested software
- Only sign documents in area of competence
- Cooperate on matters of public concern
- Produce software that respects diversity
- Be fair and truthful in all matters
- Always put the public's interests first
- Donate professional skills to good causes
- Accept responsibility for your own work
- Avoid conflicting financial interests
- Temper technology judgments with ethics
- Accept responsibility for your own work
- Ensure adequate software specification
- Understand specifications fully
- Assure standards are known by employees
- Assure knowledge of confidentiality protocols
- Assign work according to competence

5: Avionics: Quality Concerns addressing to Failure Knowledge about physical equipment, sensor, controls, flight characteristics and other system of the airplane is mandatory. Safety aspects: The lives of the flight crew, passengers Algorithms: Aerodynamic with correct functions A licensed engineer to develop the system Missing one the above mentioned task will definitely heading towards system failure. Professional Ethics and Practices:

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6: Stock marketing Trading Software: QualityConcerns addressing to Failure:
 MechanicalfailuresOveroptimizationThepublic interest aspect: The
 economicinterests of the public would be adversely affected in the event of a
 crash. Reason: The consequences of such a crash, resultingfrom an
 incorrectly engineered system. ProfessionalEthics and Practices:· Be fair
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