Quiz2

Final

Essay:

1. What is the goal of cryptography in our society? What are the fundamentals of cryptography that would affect our modern technology? Please cite examples and elaborate.

Answer: The goal of cryptography in our society is offering techniques to secure our data, whether data is stored on electronic devices or transmitted via the Internet. A simplified model of cryptography assumes that the sender encrypts data (encryption) to make it unreadable by any adversary (a spy or a hacker) except for the legitimate receiver who can decrypt the data (decryption). However, the fundamentals of cryptography that would affect our modern technology are: Data Confidentiality, Data Integrity, Authentication and Non-repudiation. Moreover, the examples of confidential data include: Social Security Numbers. Credit Card Numbers. Health Records. While, the examples of data integrity include all data stored inside an organization's database on servers. And the authentication example is username and password combination is the most popular authentication mechanism, and it is also known as password authentication. Lastly, the example of non-repudiation is, if you take a pen and sign a (legal) contract your signature is a nonrepudiation device.

2. What role does graphic design play in social media marketing? How can advertising industry

utilize the role of graphic design?

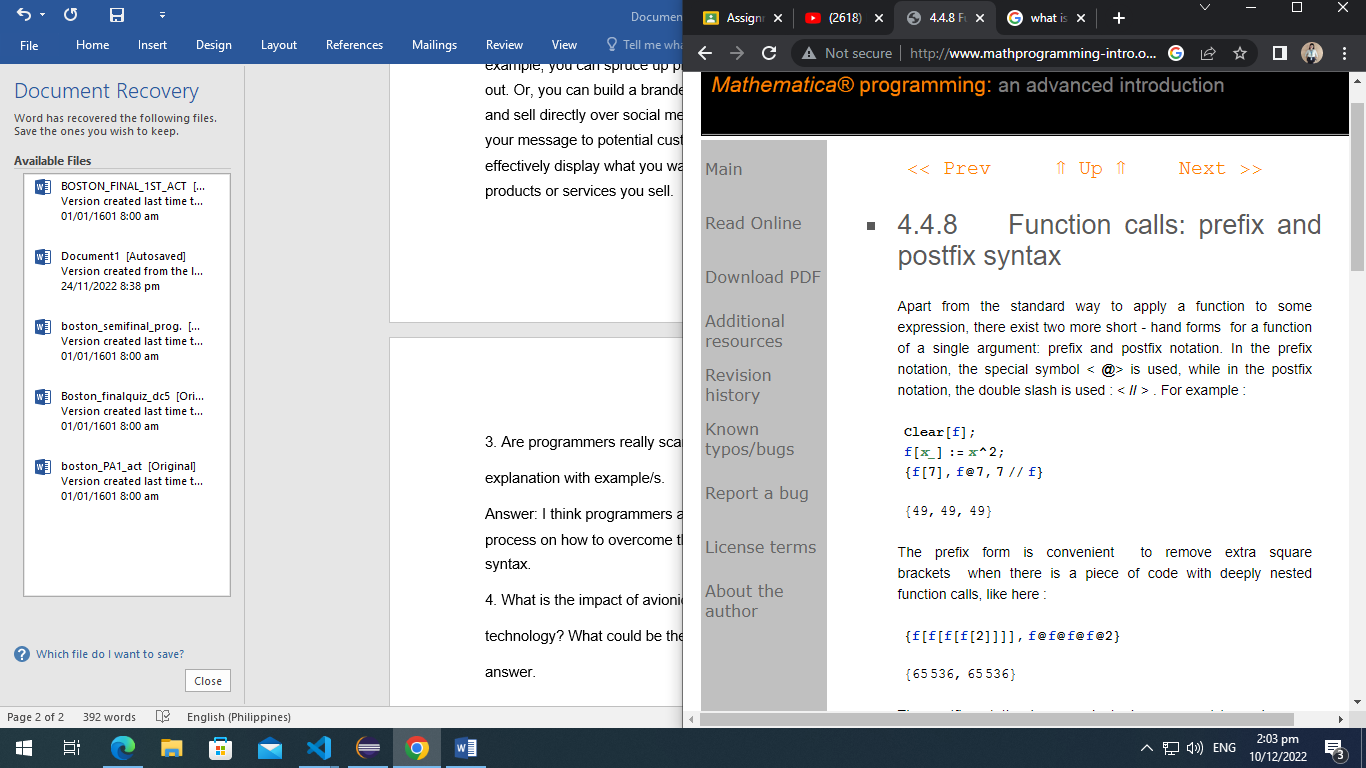
Answer: The role of Graphic design is to help you make more sales in a number of ways. For example, you can spruce up product photos so that they're more attention grabbing and stand out. Or, you can build a branded online store on platforms such as Facebook and Instagram, and sell directly over social media. However, graphic design is critical in how it communicates your message to potential customers. Eye-catching graphics can bring your ideas to life and effectively display what you want your audience to know about your company brand and the products or services you sell.

3. Are programmers really scared of prefix syntax? Why or why not? Please elaborate your

explanation with example/s.

Answer: I believed programmers are not scared about prefix syntax but they’re scared about the process on how to overcome the flow of the goal that they’ve wanted to achieved using prefix syntax.

Example:



As you can see on the given figure above. A prefix code is a type of code system distinguished by its possession of the "prefix property", which requires that there is no whole code word in the system that is a prefix (initial segment) of any other code word in the system. That’s why as an IT professional, programmers have its difficulty on coding using prefix syntax. Because prefix syntax only uses initial segment.

4. What is the impact of avionics in our modern world? Why programmers are eager to learn this

technology? What could be the impact of this in the service industry? Please elaborate your

answer: As an observant IT professional and based on my in-depth analyzation, because of the avionics we or our society has Commercial airliners, helicopters, military fighter jets, unmanned aerial vehicles (UAV), business jets, and spacecraft. Those all mentioned uses avionics. Programmers are eager to learn this technology, because coding is the fundamental skill for jobs such as software development and has a high salary. There is currently a shortage of software developers worldwide, so learning to code can be an easy route into an open field of work. Avionics provides mass and quick intangible products or services and completes tasks that are useful to customers, clients, or businesses.