Name:

ID:

M1 Assignment 01

Creativity/ History/ Innovation

Part 1: Reading

<http://runestone.academy/runestone/books/published/StudentCSP/CSPCreativity/intro.html>

1. Complete the sentence: Building software is a very \_\_\_\_\_ process.
2. What is UI? Give an example of the UI of a web application or mobile phone application:
3. What is UX? How is it different than UI? Give an example from an existing Mobile phone or web application:
4. A novel idea results in what?
5. What are the 5 Heilmeier questions?
6. What is the purpose of the Heilmeier questions?
7. Use the Heilmeier questions to address the following problem: “I have a hard time finding a ride to work from my condo.”
8. What is meant by brainstorming?
9. What is a prototype?
10. What should you do after completing your initial round of prototyping?
11. What is the difference between the driver and the navigator in a programming team?
12. Name the second benefit of pair programming:
13. What development methodology is employed to ensure team work is completed efficiently?

<http://runestone.academy/runestone/books/published/StudentCSP/CSPGlobalImpact/intro.html>

1. What company did Gordon Moore work for?
2. What is the name of law that he is famous for? What does it say?

Part 2: Applications

1. According to the following article: <https://www.technologyreview.com/s/601441/moores-law-is-dead-now-what/>, the worlds top super computers \_\_\_\_\_ at the rate they used to.
2. Use google trends to compare the following games: Fortnite, Call of Duty, and CSGO. Describe the graph. Which game was most popular in Thailand May 2004? Which game in Thailand May 2010? Which game in Thailand May 2018?
3. Use google trends to compare Pizza Company and Pizza hut in Thailand. Which is consistently more popular? In what year did the Pizza Company reach peak interest? What about pizza hut?
4. Post the link of a TED talk related to technology that you find interesting:
5. Predict the life expectancy in Thailand in 2045 using the following google data set: <https://www.google.com/publicdata/explore?ds=n4ff2muj8bh2a_&ctype=l&met_y=HLOBESITY>
6. Predict the smoking rate in Thailand in 2060 using the following data set:

<https://www.google.com/publicdata/explore?ds=n4ff2muj8bh2a_&ctype=l&met_y=HLOBESITY>

1. Describe the smoking rate of adults 30+ in Thailand using the data in the previous question:
2. Give an example of a reliable resource for information.
3. Who is the Author in the following article?

<https://www.quantamagazine.org/physicists-aim-to-classify-all-possible-phases-of-matter-20180103/>

1. What is the publication date of the following article?

<https://www.goodnewsnetwork.org/gamechanging-pink-seaweed-reduces-cow-emissions/>

Part 3: Essay Section

26) Instructions: Write an essay on the topic below. The essay should use reliable resources all of which should be cited at the end of your essay. No copy/ paste allowed. 1 page minimum. Size 11 Calibri navy blue font.

Topic: Research a technological innovation from 2018/2019. Describe the purpose of the innovation. Describe its impact on society. Describe the pros and cons of the innovation. Describe who developed the innovation. How it was developed.

Part 4: Bonus

<https://yourlogicalfallacyis.com/>

27) Identify the logical fallacy in the argument: “If we require special bathrooms for transgender, then special bathrooms for two-spirit and non-binary genders will be created, then bathrooms for squirrels and other animals will also need to be created!”

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| --- | --- |
| Bandwagon | Slippery slope |
| Gambler’s fallacy | Appeal to emotion |
| False cause | Strawman |
| Ad hominen | Genetic |

28) Identify the logical fallacy in the argument: “Why would you take Hydroxychloroquine to cure COVID-19, Donald Trump is taking it, so it must be bad.”

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| --- | --- |
| Bandwagon | Slippery slope |
| Gambler’s fallacy | Appeal to emotion |
| False cause | Strawman |
| Ad hominen | Genetic |

29) Identify the logical fallacy in the argument:

LeBron James claiming there is racial injustice in America spoke of reading about a black man who was trying to buy a bicycle for his son but had police called on him, “It's just heartbreaking. You guys don't understand," James said. "Unless you're a person of color, you guys don't understand. I understand you might feel for us. But you will never truly understand what it is to be black in America.”

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| --- | --- |
| Bandwagon | Appeal to Nature |
| Gambler’s fallacy | Special Pleading |
| Texas Sharpshooter | Strawman |
| Ad hominen | Anecdotal |

30) Identify the logical fallacy in the argument: “I pay taxes in Thailand, so I am entitled to pay the same rate as Thai citizens at national parks.”

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| --- | --- |
| False Equivalence | Tu Quoque |
| Gambler’s fallacy | Appeal to emotion |
| False cause | Strawman |
| Ad hominen | No True Scotsman |