**Level 1 Eliza**

1. **Research the “ELIZA Computer Therapist Program”. Summarize your answers to the following:**
   1. **What does the program do?**

*The program is a virtual therapist who people can talk to let out their feelings. The program was an Ai and not a real human.*

* 1. **When and why was the program created?**

*This program was created to demonstrate superficiality of communication between humans and machines.*

* 1. **How does the program work?**

*All the program did was to decompose the user's input into its constituent parts of speech, and type them back at the user in a manner that sustained the conversation.*

1. **Use an on-line version of the ELIZA program to see what it is like.**
   1. **Open the URL :** [**http://psych.fullerton.edu/mbirnbaum/psych101/Eliza.htm**](http://psych.fullerton.edu/mbirnbaum/psych101/Eliza.htm)
   2. **Begin by talking about your feelings (just like if you were talking to a guidance councillor).**
   3. **After a while, try to trick the program.**
2. **In what ways did the program seem like you were talking to a real person? What was a strategy used by the program to keep the discussion going?**

*If you keep talking to the program about yourself it would keep the conversation going and make it seem like as if you’re messaging a friend or someone you trust.*

1. **In what ways could you tell that it was not a real person? What were some of the weaknesses of the program?**

*During the conversation if you try to trick it or switch the topic about them (the program) it would sometimes repeat some sentences.*

1. **If you had your friend talk to ELIZA but did not tell them it was a program, how long do you think it would take for them to figure it out? Explain your answer.**

*They would figure it out pretty quick because they would see that the program or the place where they are typing is a program on the internet. But let’s say they didn’t see that part. Then it would probably take them a good 2-3 minutes because if you tell my friend to talk to the program like how you would talk to your guidance counsellor, the conversation would continue. But the if my friend were to ask something about them (the program) it might repeat some previous answers.*

**Level 2 Turing Test**

1. **Research the “Turing Test”. Summarize your answers to the following:**
   1. **What is the Turing Test?**

*A test for intelligence in a computer, requiring that a human being should be unable to distinguish the machine from another human being by using the replies to questions put to both.*

* 1. **Who was Alan Turing?**

*Alan Turing was a British scientist and a pioneer in computer science. During World War II, he developed a machine that helped break the German Enigma code. He also laid the groundwork for modern computing and theorized about artificial intelligence.*

* 1. **How does the Turning Test work?**

*The Turing test is used to measure a machine's ability to think and is an important concept in the philosophy of artificial intelligence. In the original imitation game test, Turing proposes A to be a computer. The computer pretends to be a woman and tricks the interrogator into making an incorrect evaluation.*

* 1. **How is the Turing Test different from other Artificial Intelligence tests?**

*Advances in computer vision algorithms and the application of modern artificial intelligence (AI) techniques have made writing visual tests practical. With AI in testing, autonomous testing becomes possible. The boring and rote tasks will be delegated to the AI so that the tester can do the thinking.*

1. **Visit the Ted Ed website to learn more about the Turing Test.**
   1. **Watch the video at:** [**https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler**](https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler)
   2. **Complete the on-line test at:** [**https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler#review**](https://ed.ted.com/lessons/the-turing-test-can-a-computer-pass-for-a-human-alex-gendler#review)
2. **Has any computer AI passed the Turing Test? Research this question and report on your results.**
3. **Do you think that you have ever been fooled by an on-line computer AI program? Explain your answer.**

**Level 3 Article reviews**

Pick any three (3) out of the following four (4) articles to read and review. Answer the questions that are specific to each article.

Article 1: Social Media Bots

Read the following article:

<https://www.questia.com/magazine/1G1-530914703/social-media-bots-how-they-spread-misinformation>

1. How much internet traffic is estimated to be produced by AI bots?
2. What are some strategies used by bots to appear more human?
3. How many social media accounts are estimated to be AI bots?
4. How easy is it for a user to detect that they have been “friended” buy a social media AI bot?

Article 2: Social Media Bots

Read the following article:

<https://www.usnews.com/news/healthiest-communities/articles/2018-07-24/how-social-media-bots-could-compromise-public-health>

1. How many social media accounts are estimated to be AI bots?
2. What is the purpose / objective of these AI bots?
3. How could a bot be used to increase the number of people vaping or smoking?
4. How could a bot be used to increase the public concern about getting vaccinated?
5. What is a “sockpuppet”?

Article 3: Automated Journalism

Read the following article:

<https://www.bbc.com/news/business-42858174>

1. What are some of the topics of the articles produced by the robo-journalists owned by the Press Association (PA)? How long and how detailed are these articles?
2. “At this stage” what are the limitations of robo-journalists? What jobs do human journalists do that cannot yet be done by robo-journalists?
3. What happened when the LA Times used a robo-journalist to report on an earthquake?
4. What are some of the “easier” tasks that robo-journalists are used to produce articles for?
5. Do you think this article was written by a robo-journalist? Explain your answer by giving examples of both why and why not.

Article 4: Automated Journalism

Read the following article:

<https://digiday.com/media/washington-posts-robot-reporter-published-500-articles-last-year/>

1. What is the name of the Washington Post’s robo-journalist and what was its first assignment?
2. How can robo-reporting expand the audience for newspapers?
3. How can robo-reporting help human journalists?
4. Are smaller news organizations using robo-reporting? What are the benefits to smaller organizations?
5. Do you think this article was written by a robo-reporter? Explain your answer by giving examples of both why and why not.

**Level 4 Will Artificial Intelligence Take My Job (Presentation)**

1. Read the following articles to get some ideas about what you should include in your presentation.

<https://www.forbes.com/sites/forbestechcouncil/2018/02/26/artificial-intelligence-will-take-your-job-what-you-can-do-today-to-protect-it-tomorrow/#430f57bf4f27>

<https://www.forbes.com/sites/theyec/2018/07/06/do-you-fear-artificial-intelligence-will-take-your-job/#7fb127a611aa>

1. Select a job (topic) that you think might not be affected by computer technology and artificial intelligence.
   1. A list of job topics is included at the end of this page.
   2. Your job topic must be confirmed with Mr. Nestor.
   3. Your job topic must be unique in the class.
2. Create a presentation that will inform other students about the following information:
   1. Title your presentation “ Will AI Take My Job as a (your job topic)”
   2. Describe your job as it currently exists (or as it is traditionally). Focus on details that could be automated.
   3. Provide some examples of how your job can be (or has been) changed by computer technology in general.
   4. Provide some examples of how your job can be (or has been) changed by artificial intelligence specifically.
   5. Describe your job as it will exist in the future as it changes due to computer technology.
   6. Explain what education will be required to do this job more effectively.
3. Presentations are due on Wednesday and will be presented Wednesday and Thursday.
   1. Presentation to the class should be 5 minutes in length
   2. Share your presentation with Mr. Nestor through Google docs.

**Job Topic Suggestions:**

|  |  |  |
| --- | --- | --- |
| Truck Driver | Taxi Driver | Delivery Person |
| Store Checkout Clerk | Restaurant Cook / Waiter | Retail Sales Person |
| Real Estate Agent | Financial Advisor | Bank Teller |
| Family Doctor | Medical Specialist / Surgeon | Fitness Instructor |
| Artist | TV / Radio Personality | Actor |
|  |  |  |