**Course: Networking & Security T**

**Unit: Networking & Cyber Security**

**Unit Value: 1.0 Semester 1, 2020 Assessment Value:** XX%

**Assessment Item:** Research Assignment **Teacher**: Mr C. Johnson

**Date Notified**: XXXXXXXXXXXXX (Week XX)

**Date Due:** XXXXXXXXXXXXX (Week XX)

**TASK SUMMARY:**

Based on a specified video relating to cyber security, you are to answer some questions, research about a real case of cyberattack, and also create a book or video for young children relating to one concept from the video. Before making the book or video, you also need to prepare a written proposal/plan for the book or video, outlining its “big idea” and how it will be developed in the book or video.

**TASK DETAILS:**

1. **Watch** the TEDx video found at the following link:  
   <https://www.ted.com/talks/mark_burnette_the_humanity_behind_cybersecurity_attacks>
2. Based on the content of the above video, give **written answers** to each of the following:
   1. List the three human traits/characteristics that hackers abuse to conduct cyberattacks, giving a brief explanation of each one, including one example of how it may exploited in a cyberattack
   2. What is “Social Engineering” and how does it leverage the key difference between humans and computers emphasised in the video?
   3. Explain two examples the speaker uses at the end of “becoming less human”, showing how that examples are “less human”.
3. **Find** a news article online from the last two years that details a cybersecurity attack where the attackers were able to breach the system. In 400-600 words, **explain** what means was used to breach the system, and how security could have been improved to prevent the attack. You may need to do further research to find further details or determine ways to improve security. Use appropriate in-text referencing and include a list of references at the end (not included in word count). As an appendix include a copy of the news article you found, and also relevant sections of any other references you used, so your teacher can readily check your references.
4. **Write a plan** for a short video (maximum five minutes) or picture book (at least five double pages, or 10 slides if online), aimed at young children (up to 10 years old), that teaches one concept taken from the TEDx video above. In your plan include the following:
   1. *Big Idea*: what is the single concept taken from the TEDx video which will be the focus of your video or book
   2. *Audience*: Specify your target audience age group (eg 2-4 years old, 8-10 years old)
   3. *Format*: Specify whether you are making a video or book
   4. *Title*: What is the title of your video or book?
   5. *Idea Development*: Explain how you develop your big idea into a book or video, in about 400-600 words. For example: How will you explain the big idea in a way meaningful to your target audience, what example(s) will you use? Will there be a main character? What will be the plot or storyline? How will you make it appealing and engaging for the target audience? (You may want to check on the internet for basic tips and hints on writing children’s books etc)
5. **Create the book or video** you planned above. The book or movie should be created electronically (although you may use scans or photographs of hand-drawn images). The book could also be in the form of a PowerPoint slideshow. If you make a video, you must also submit a written script of the content.

**ASSIGNMENT MARKING SCHEME** (T Course – Total 32 Marks)

| **Item Assessed** | **A Grade**  (100% - 85% marks) | **B Grade**  (84% - 70% marks) | **C Grade**  (69% - 55% marks) | **D Grade**  (54% - 40% marks) | **E Grade**  (39% - 0% marks) | **Marks** |
| --- | --- | --- | --- | --- | --- | --- |
| Video: Answers to Questions | ▪ Able to answer all questions confidently, accurately, concisely and coherently, with full understanding and using appropriate terminology | ▪ Able to answer most questions confidently, accurately, and coherently, with clear understanding and using appropriate terminology | ▪ Able to answer most questions accurately and coherently, with some appropriate terminology | ▪ Able to answer some questions with some accuracy and coherency, with some appropriate terminology | ▪ Little or no ability to answer questions with accuracy and coherency, or use appropriate terminology | /7 |
| Cyberattack News Article | ▪ Demonstrates thorough and extensive knowledge and understanding of means of cyberattack and how security could have been improved to prevent the attack, evidencing a strong ability to accurately and critically analyse and evaluate the situation  ▪ Always using in-text referencing where substantiation is needed, with a final list of references, all appropriately formatted | ▪ Demonstrates broad and in-depth knowledge and understanding of means of cyberattack and how security could have been improved to prevent the attack, evidencing some ability to accurately analyse and evaluate the situation  ▪ Sometimes using in-text referencing appropriately, with a final list of references, appropriately formatted | ▪ Demonstrates broad and general knowledge and understanding of means of cyberattack and how security could have been improved to prevent the attack, evidencing some ability to identify and evaluate the situation  ▪ A final list of references is present, generally appropriately formatted | ▪ Demonstrates general and basic knowledge and understanding of means of cyberattack and how security could have been improved to prevent the attack  ▪ Some references are included | ▪ Demonstrates limited or no knowledge of means of cyberattack and how security could have been improved to prevent the attack  ▪ No references are included | /7 |
| Plan for Book/Video | ▪ A clear and coherent plan accurately based on an appropriate cybersecurity concept  ▪ Idea development is appropriately engaging and interesting for the target audience, thoughtfully evidencing originality and creativity  ▪ All required aspects of the plan are present | ▪ A clear plan accurately based on an appropriate cybersecurity concept  ▪ Idea development is somewhat engaging and interesting for the target audience, evidencing some originality and creativity  ▪ All required aspects of the plan are present | ▪ A plan based on a cybersecurity concept  ▪ Idea development attempts to be engaging and interesting for the target audience  ▪ All required aspects of the plan are present | ▪ A plan somewhat based on a cybersecurity concept  ▪ Idea development has some relevance to the target audience  ▪ Some required aspects of the plan are present | ▪ No plan or not based on a cybersecurity concept  ▪ Idea development has little or no relevance to the target audience  ▪ Few required aspects of the plan are present | /7 |
| Book/Video | ▪ Big idea and other technical concepts are always conveyed accurately, clearly and coherently  ▪ Style and methods of communicating are always appropriate for the genre and audience, and the result is highly effective and very engaging | ▪ Big idea and other technical concepts are mostly conveyed accurately, clearly and coherently  ▪ Style and methods of communicating are mostly appropriate for the genre and audience, and the result is effective and somewhat engaging | ▪ Big idea and other technical concepts are generally conveyed accurately and coherently  ▪ Style and methods of communicating are generally appropriate for the genre and audience, and in general can be readily understood. | ▪ Big idea and other technical concepts are conveyed with some accuracy  ▪ Style and methods of communicating demonstrate minimal attempts to be appropriate for the genre and audience, and is often difficult to follow and understand. | ▪ Big idea and other technical concepts are conveyed with little or no accuracy and coherency  ▪ Style and methods of communicating are not appropriate for the genre and audience, and is mostly difficult to follow and understand. | /7 |
| Communication | ▪ Consistently communicates clearly, concisely, accurately and coherently with flair  ▪ All information and explanations are communicated clearly and effectively using appropriate means  ▪ All paragraphs are well-constructed, with very few or no grammatical or spelling errors  ▪ Always uses technical terminology appropriately and correctly | ▪ Generally communicates clearly, logically and accurately with confidence  ▪ Mostly information and explanations are communicated clearly and logically using appropriate means  ▪ Most paragraphs are well-constructed, with few grammatical or spelling errors  ▪ Mostly uses technical terminology appropriately and correctly | ▪ Generally communicates clearly  ▪ Generally information and explanations are communicated clearly  ▪ Paragraphs are generally satisfactorily-constructed, with some significant grammatical or spelling errors  ▪ Often uses technical terminology inappropriately and/or incorrectly | ▪ Often communicates without clarity  ▪ Some explanations are communicated clearly  ▪ Paragraphs are generally poorly-constructed, with many grammatical and spelling errors  ▪ Occasionally uses technical terminology appropriately and/or correctly | ▪ Consistently communicates without clarity  ▪ Very little explanation is communicated  ▪ Paragraphs are generally poorly-constructed, with many grammatical and spelling errors  ▪ Never uses technical terminology appropriately and/or correctly | /4 |
| **TOTAL MARK** | | | | | | **/32** |