AS level - Computer Science Summer Task

Task 1 - Research: Computing related legislation
Evidence: Poster
Expected time commitment: 3 hours

Research the following Acts of parliament to deal with the legal issues related to the use of computers. For each Act, explain briefly its purpose and implications for individuals and organisations. *Presenting the evidence on A3 will look better and you can fit more on.*

- Computer Misuse Act (1990)
- Freedom of Information Act (2000)
- Communications Act (2003)
- Data Protection Act (1998)
- Copyright, Designs and Patents Act, CPDA (1988)
- Creative Commons (CC)
- The Regulations of Investigatory Powers Act (2000)

Task 2 - Skills: Programing Basics
Evidence: Print screen evidence of attempted exercises.
Expected time commitment: 4 hours

Complete the first 7 components of the course below. Read the theory and following the instructions, alter the code and re run it.

https://www.codecademy.com/learn/learn-java
Work through the following topics on the course.
1. Hello World
2. Variables
3. Conditionals and Control Flow
4. Array and ArrayLists
5. Loops
6. String methods

Task 3: Critical Views
Expected time commitment: 2 hours
Evidence: Report the length of a single A4 side

Artificial intelligence (AI) enables computers to perform activities at a human expert level using complex algorithms.

Answer the questions listed below. This requires research and critical thinking – this means to see things from different perspectives and to evaluate good and bad aspects.

- What is AI?
- Discuss the positive and negative impacts of AI on society considering the following
    1. Workforce
    2. Self-driving cars
    3. Privacy.

Task 4: Super curricular

Expected time commitment: 136 minutes

Evidence: Provoking thoughts

Watch the motion picture "The Matrix". Think about all the aspects of this movie that relates to computer science.