Explore — Impact of Computing Innovations  
Written Response Submission Template

# Submission Requirements

## 2. Written Responses

Submit one PDF document in which you respond directly to each prompt. Clearly label your responses **2a–2e in order.** Your responses must provide evidence of the extensive knowledge you have developed about your chosen computing innovation and its impact(s).

Write your responses so they would be understandable to someone who is not familiar with the computing innovation. Include citations, as applicable, within your written responses. **Your response to the first four prompts (2a–2d) combined must not exceed 700 words.**

### Computational Artifact

**2a.** Provide information on your computing innovation and computational artifact.

* Name the computing innovation that is represented by your computational artifact.
* Describe the computing innovation’s intended purpose and function.
* Describe how your computational artifact illustrates, represents or explains the computing innovation’s intended purpose, its function or its effect.

*(Approximately 100 words)*

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**2b.** Describe your development process, explicitly identifying the computing tools and techniques you used to create your artifact. Your description must be detailed enough so that a person unfamiliar with those tools and techniques will understand your process.

*(Approximately 100 words)*

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### Computing Innovation

**2c.** Explain at least one beneficial effect and at least one harmful effect the computing innovation has had, or has the potential to have, on society, economy, or culture.

*(Approximately 250 words)*

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**2d**. Using specific details, describe:

* The data your innovation uses.
* How the innovation consumes (as input), produces (as output), and/or transforms data.
* At least one data storage concern, data privacy concern, or data security concern directly related to the computing innovation.

*(Approximately 250 words)*

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### References

**2e.** Provide a list of at least three online or print sources used to create your computational artifact and/or support your responses to the prompts provided in this performance task.

* At least two of the sources must have been created after the end of the previous academic year.
* For each online source, include the permanent URL. Identify the author, title, source, the date you retrieved the source, and, if possible, the date the reference was written or posted.
* For each print source, include the author, title of excerpt/article and magazine or book, page number(s), publisher, and date of publication.
* If you include an interview source, include the name of the person you interviewed, the date on which the interview occurred, and the person’s position in the field.
* Include citations for the sources you used, and number each source accordingly.
* Each source must be relevant, credible, and easily accessed.

*(Note: No word count limit for this answer)*