**Opgave 1: "Try It Yourself"**

**Section 1 - Understanding Prompts**

Step 2:

1. Explain the proces of photosynthesis in simple terms:

A screenshot of a computer

AI-generated content may be incorrect.

2. List 10 keywords and their definitions relevant to photosynthesis:

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AI-generated content may be incorrect.

3.Write an outline for a short video about photosynthesis.

A screenshot of a video chat

AI-generated content may be incorrect.

A screenshot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Step 3. Apply the elements of a good prompt to craft your own:

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AI-generated content may be incorrect.

A screenshot of a black and white text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Step 4: Reiterate the prompt so that the output is for a 3 minute educational video for 15-year-old students:

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AI-generated content may be incorrect.

A screenshot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Step 4 continued:

A screenshot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Step 4 continued:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Section 2 - Gina's Investigation**

Compose an Outline

Step 1: Go to Copilot chat and try this prompt following the instructions below:

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AI-generated content may be incorrect.

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AI-generated content may be incorrect.

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AI-generated content may be incorrect.

Experiment and Iterate! What happens when you change the tone, format and art form?

Step 2:

A screenshot of a computer

AI-generated content may be incorrect.

A black and white text

AI-generated content may be incorrect.

A screenshot of a computer screen

AI-generated content may be incorrect.

A black background with white text

AI-generated content may be incorrect.

Step 3: Skriv dit svar til Step 3 "What happened to the results after you changed the prompt and settings?" ind i dit document:

It went from a fact driven story that *told* about the problem, to a fiction story that *showed* the readers the problem.

**Section 2 - Fabrications and Fact-Checking**

Help Gina Fact-Check These Statements:

1. there are currently more than 500 trillion pieces of plastic floating in our world's oceans
2. One of the major threats to sea turtles worldwide is the ingestion of plastics caused by human pollution.
3. Scientists predict that by 2032 there could be more plastic than fish in the ocean.

So lets look at it:

1. According to search coach are there only 5.25 trillion pieces of plastic debris in the world

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AI-generated content may be incorrect.

That is still a concerning number.

1. According to Search Coach plastic DOES seem to be one of five main threats to the turtles.

A screenshot of a computer

AI-generated content may be incorrect.

1. According to Search Coach it seems to be that it is first in 2050 there will be more plastic than fish in the ocean.

A screenshot of a computer

AI-generated content may be incorrect.

Step 3: which of these statements were accurate and which were not?

Conclusion: it is number 2 that turned out to be right. The rest was exaggerated.

Start med at finde 3 påstande i output fra den forrige opgave.

1. Study: a quantitative analysis showed a **50% probability of mortality** once a turtle’s gut contained 14 or more pieces of plastic.
2. Another study: ~86% of green turtles examined had plastic ingestion; ~14% showed entanglement.
3. Example: more than 1,000 sea turtles estimated to die each year from entanglement alone.

Undersøg validiteten af disse 3 påstande.

1. turns out to be true according to a analysis done by [Chris Wilcox](https://pubmed.ncbi.nlm.nih.gov/?term=%22Wilcox%20C%22%5BAuthor%5D) , [Melody Puckridge](https://pubmed.ncbi.nlm.nih.gov/?term=%22Puckridge%20M%22%5BAuthor%5D) , [Qamar A Schuyler](https://pubmed.ncbi.nlm.nih.gov/?term=%22Schuyler%20QA%22%5BAuthor%5D) , [Kathy Townsend](https://pubmed.ncbi.nlm.nih.gov/?term=%22Townsend%20K%22%5BAuthor%5D) , [Britta Denise Hardesty](https://pubmed.ncbi.nlm.nih.gov/?term=%22Hardesty%20BD%22%5BAuthor%5D). In a paper called: “**A quantitative analysis linking sea turtle mortality and plastic debris ingestion” found on https://pmc.ncbi.nlm.nih.gov/articles/PMC6137038/?utm\_source=chatgpt.com, they state that “We found a 50% probability of mortality once an animal had 14 pieces of plastic in its gut. “**
2. That also turned out to be true according to a study done by Yasmina Rodríguez, Frederic Vandeperre, Marco R. Santos, Laura Herrera, Hugo Parra, Ashok Deshpande, Karen A. Bjorndal , [Christopher K. Pham](https://www.sciencedirect.com/author/26656061500/christopher-kim-pham), called “Litter ingestion and entanglement in green turtles: An analysis of two decades of stranding events in the NE Atlantic”

They state in their highlights that: “Entanglement was detected in 14% of the turtles and ingestion of plastic in 86%.”

1. This also turned out to be true: according to <https://www.seaturtlestatus.org/sea-turtles-plastic-pollution?utm_source=chatgpt.com>, Scientists estimate that at least [1,000 sea turtles die each year due to entanglement in plastic](https://www.sciencedaily.com/releases/2017/12/171218154235.htm)—that’s an average of more than 1 turtle every 9 hours!

**Chatgtp kom med alle kilderne til dens påstande. De viste sig alle tre at være sande. Jeg har dog tidligere oplevet falske links som Chatgtp har givet. Så det forekommer og man skal altid tjekke selv.**

**Become an AI-Powered Artist**

**STEP 2  
Enter the prompt “sea turtles” then click *create.*** ***A screenshot of a computer

AI-generated content may be incorrect.***

**STEP 3**  
Iterate your result by adding more details to your prompt. Try adding  
“*swimming gracefully in a vibrant coral reef*” at the end of your prompt.

A screenshot of a computer

AI-generated content may be incorrect.

**STEP 4**  
Now let’s stylise your output.  
Add one of the following to the end of your prompt:  
a. “in photorealistic style”  
b. “in the style of Van Gogh”  
c. “in a pop art style”

I chose Van Gogh:

Screens screenshot of a phone

AI-generated content may be incorrect.

**Section 3 - Alex's Cosmic Adventure**

**STEP 2**  
Fill in the blanks for this prompt:

“I want to create a character profile for a **(insert a theme)** themed online game, where this main character will be embarking on an unforgettable adventure. This character needs to have a **(insert an adjective)** personality. Please help me craft a distinct character profile, including a name, defining personality traits, a signature catchphrase, and physical attributes.”

Here is my prompt:

A black screen with white text

AI-generated content may be incorrect.

**STEP 3**  
Generate your character profile and share your results with the class!

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AI-generated content may be incorrect.

A black background with white text

AI-generated content may be incorrect.

**STEP 4**  
Experiment with your results by changing the theme and adjectives to see what else the LLM can come up with.

Here is my prompt:

A screenshot of a computer screen

AI-generated content may be incorrect.

Here is the result:

A screenshot of a computer

AI-generated content may be incorrect.

**Section 3 - Coding the Game**

**STEP 1  
Use *Microsoft Copilot* or *ChatGPT.***

**STEP 2**  
Enter this prompt:  
“Write a HTML code for a simple ‘Guess the Number’ game.”

My prompt:

A black and white text

AI-generated content may be incorrect.

Result:

A computer screen shot of a computer code

AI-generated content may be incorrect.

A computer screen shot of text

AI-generated content may be incorrect.

A screen shot of a computer code

AI-generated content may be incorrect.

A computer screen shot of a program code

AI-generated content may be incorrect.

A screen shot of a computer

AI-generated content may be incorrect.

A computer screen shot of a program

AI-generated content may be incorrect.

A computer screen with text

AI-generated content may be incorrect.

A black background with white text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Opgave 2 - Shortcut or Superpower**

Dårlig Prompt:

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Svar fra AI:

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A computer screen shot of a computer code

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

God prompt:

Hvis jeg vil lave et program, som læser en tekstlinje fra konsollen og tæller:

* antallet af vokaler (a, e, i, o, u, y),
* konsonanter,
* cifre (0–9),
* mellemrum, og andre tegn.

Der til sidst udskrives en lille rapport med tallene,

Kan du lære mig hvordan man laver dette program, men uden at vise mig det endelige resultat? Kan du give en gennemgang i hvad jeg behøver at vide for at lære dette?

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AI-generated content may be incorrect.

A screenshot of a computer

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A screenshot of a computer

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A screenshot of a computer program

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A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a black and white text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

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A screenshot of a computer program

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A screenshot of a computer

AI-generated content may be incorrect.

A black screen with white text

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

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AI-generated content may be incorrect.

A screenshot of a computer program

AI-generated content may be incorrect.

A black and white text

AI-generated content may be incorrect.

**Opgave 3 – Debugging**

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**Svar fra AI:**

**A screenshot of a computer program

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**A screenshot of a computer program

AI-generated content may be incorrect.**

**Opgave 4 - Måder at bruge Generativ AI på**

**I artiklen**[**Practices for the Application of Generative AI in Programming Education**](https://github.com/MichaelViuff/WS1/blob/main/Generative%20AI%20(GAI)/GenAI%20in%20ProgEd%20practices.pdf)**opremses mange forskellige måder hvorpå Generativ AI kan bruges til at understøtte læring, specifikt indenfor programmering.**

**Du har i løbet af de forrige opgaver allerede været igennem et par af punkterne.**

**Udvælg ét af punkterne, og lav et eksempel hvor du bruger Generativ AI på den udvalgte måde.**

**Skriv hvilket punkt du har valgt ind i dit dokument.**

**A close-up of a white background

AI-generated content may be incorrect.**

**A white paper with black text

AI-generated content may be incorrect.**

**My prompt:**

**A black background with white text

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A black screen with white text

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a computer program

AI-generated content may be incorrect.**

**A screenshot of a computer

AI-generated content may be incorrect.**

**A screenshot of a black and white screen

AI-generated content may be incorrect.**