**Tactics**

**Principle1: Write Clear and specific instructions**

1) Delimiters can be anything like: ```, """, < >, `<tag> </tag>`, `:`

eg;prompt = f"""

Summarise the text delimited by triple backticks \

into a single sentence.

```{text}```

"""

2)**Tactic 2: Ask for a structured output**

* JSON, HTML

eg;prompt = f"""

Generate a list of three made-up book titles along \

with their authors and genres.

Provide them in JSON format with the following keys:

book\_id, title, author, genre.

"""

response = get\_completion(prompt)

print(response)

3)#### Tactic 3: Ask the model to check whether conditions are satisfied

eg;prompt = f"""

You will be provided with text delimited by triple quotes.

If it contains a sequence of instructions, \

re-write those instructions in the following format:

Step 1 - ...

Step 2 - …

…

Step N - …

If the text does not contain a sequence of instructions, \

then simply write \"No steps provided.\"

\"\"\"{text\_1}\"\"\"

"""

4)**#### Tactic 4: "Few-shot" prompting**

eg;prompt = f"""

Your task is to answer in a consistent style.

<child>: Teach me about patience.

<grandparent>: The river that carves the deepest \

valley flows from a modest spring; the \

grandest symphony originates from a single note; \

the most intricate tapestry begins with a solitary thread.

<child>: Teach me about resilience.

"""

**Principle2: Give the model time to think**

**1)Specify the steps to complete a task**

**eg:**text = f"""

In a charming village, siblings Jack and Jill set out on \

a quest to fetch water from a hilltop \

well. As they climbed, singing joyfully, misfortune \

struck—Jack tripped on a stone and tumbled \

down the hill, with Jill following suit. \

Though slightly battered, the pair returned home to \

comforting embraces. Despite the mishap, \

their adventurous spirits remained undimmed, and they \

continued exploring with delight.

"""

# example 1

prompt\_1 = f"""

Perform the following actions:

1 - Summarize the following text delimited by triple \

backticks with 1 sentence.

2 - Translate the summary into French.

3 - List each name in the French summary.

4 - Output a json object that contains the following \

keys: french\_summary, num\_names.

Separate your answers with line breaks.

Text:

```{text}```

"""

response = get\_completion(prompt\_1)

print("Completion for prompt 1:")

print(response)

2) Instruct the model to work out its own solutions before rushing to a solution

Eg; prompt = f"""

Determine if the student's solution is correct or not.

Question:

I'm building a solar power installation and I need \

help working out the financials.

- Land costs $100 / square foot

- I can buy solar panels for $250 / square foot

- I negotiated a contract for maintenance that will cost \

me a flat $100k per year, and an additional $10 / square \

foot

What is the total cost for the first year of operations

as a function of the number of square feet.

Student's Solution:

Let x be the size of the installation in square feet.

Costs:

1. Land cost: 100x

2. Solar panel cost: 250x

3. Maintenance cost: 100,000 + 100x

Total cost: 100x + 250x + 100,000 + 100x = 450x + 100,000

"""

response = get\_completion(prompt)

print(response)

# #It returns correct but actual student’s solutions is wrong

**\*\*\*\*\*\*THIS IS WRONG**

**Below is the correct Prompt:**

prompt = f"""

Your task is to determine if the student's solution \

is correct or not.

To solve the problem do the following:

- First, work out your own solution to the problem including the final total.

- Then compare your solution to the student's solution \

and evaluate if the student's solution is correct or not.

Don't decide if the student's solution is correct until

you have done the problem yourself.

Use the following format:

Question:

```

question here

```

Student's solution:

```

student's solution here

```

Actual solution:

```

steps to work out the solution and your solution here

```

Is the student's solution the same as actual solution \

just calculated:

```

yes or no

```

Student grade:

```

correct or incorrect

```

Question:

```

I'm building a solar power installation and I need help \

working out the financials.

- Land costs $100 / square foot

- I can buy solar panels for $250 / square foot

- I negotiated a contract for maintenance that will cost \

me a flat $100k per year, and an additional $10 / square \

foot

What is the total cost for the first year of operations \

as a function of the number of square feet.

```

Student's solution:

```

Let x be the size of the installation in square feet.

Costs:

1. Land cost: 100x

2. Solar panel cost: 250x

3. Maintenance cost: 100,000 + 100x

Total cost: 100x + 250x + 100,000 + 100x = 450x + 100,000

```

Actual solution:

"""

response = get\_completion(prompt)

print(response)

**Model Limitations:**

**Hallucination:** It can make things on its own. Makes statements that sound plausible but are not true.

**Reducing Hallucinations:**

First find the relevant information, then answer the question based on the relevant information.

**Iterative Prompt Development :**