

Ma322 Quiz 5

1. True or False

- a) Prompt engineering is related to training a large language model.
- b) Simpler prompts always lead to better results from LLMs.
- c) Even with effective prompts, LLMs can still generate outputs that contain factual errors.

2. Chain of thought prompting helps improve responses by

- a) Giving the AI direct instructions to follow
- b) Supplying a large number of examples
- c) Encouraging the AI to explain its reasoning step by step
- d) Shortening the prompts for better processing speed

3. What does the following code print out when executed?

```
template="The {weather} in {country} falls mainly on the {thing}"
prompt=template.format(weather="Rain", country="Spain", thing="Plain")
print(prompt)
prompt=template.format(country="weather", thing="country", weather="thing")
print(prompt)
```

4. Prompt chaining is particularly useful for tasks that

- a) Require only one step to complete
- b) Involve multiple interconnected steps
- c) Are highly creative and open-ended
- d) Have predefined answers

5. When using roles or personas in prompts, which is true?

- a) It always results in the AI giving factual information
- b) It can help shape the tone, style, and perspective of the response
- c) It is only useful for creative writing
- d) It is a form of few-shot prompting

6. Prompting with Template Variables. Provide the code indicated.

- a) Create a template string using a template variable `{place}` for asking the LLM to give you the capital of `{place}`.

```
template= CODE
```

- b) Evaluate your template with using the string “Florida”

```
prompt=template.format(CODE)
```

- c) Call `get_completion` to get the response from the LLM

```
response = get_completion(CODE)
```

- d) Print out the prompt and completion.

```
CODE
```

- e) Add another template variable called `{num}` to the template above and ask the LLM to provide you with `num` facts about the capital that you specified with `{place}`.

```
template = CODE
```

- f) Evaluate your template with place as “Florida” and the number 3.
Save it in the `prompt` variable. Print out the prompt.

```
prompt=template.format(CODE)  
CODE
```