Ma322 Quiz 5 Review

- 1. True or False
 - a) LLMs need to be retrained to respond to different prompting strategies.
 - b) Using more detailed prompts always guarantees accurate responses from LLMs.
 - c) Chain of thought prompting can help reduce errors but doesn't eliminate them completely.
- 2. System prompts help improve responses by
 - a) Defining the AI's role and behavior upfront
 - b) Training the model on new data
 - c) Making the prompts shorter and more efficient
 - d) Requiring specific programming languages
- 3. What does the following code print out when executed?

```
template="Give {num} interesting facts about {subject} in {country}"
prompt=template.format(num="three", subject="food", country="Italy")
print(prompt)
prompt=template.format(country="num", subject="country", num="subject")
print(prompt)
```

- 4. Role-based prompting is most effective for tasks that
 - a) Require only factual information
 - b) Need specific expertise or perspective
 - c) Are purely computational
 - d) Have only one correct answer
- 5. When using chain of thought prompting, which is true?
 - a) It only works for mathematical problems
 - b) It helps the model break down complex reasoning into steps
 - c) It makes responses shorter and more concise
 - d) It requires multiple examples to work

- 6. Prompting with Template Variables
 - a) Create a template string using a template variable {topic} for asking the LLM to explain {topic} to a beginner.

```
template= CODE
```

b) Evaluate your template using the string "machine learning"

```
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 {level} to the template above and ask the LLM to explain the topic at the specified difficulty level.

```
template = CODE
```

f) Evaluate your template with topic as "machine learning" and level as "intermediate". Save it in the prompt variable. Print out the prompt.

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