Modules

Callbacks

Logging to file

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This example shows how to print logs to file. It shows how to use the FileCallbackHandler, which does the same thing as StdOutCallbackHandler, but instead writes the output to file. It also uses the loguru library to log other outputs that are not captured by the handler.

```
from loguru import logger
from langchain.callbacks import FileCallbackHandler
from langchain.chains import LLMChain
from langchain.llms import OpenAI
from langchain.prompts import PromptTemplate
logfile = "output.log"
logger.add(logfile, colorize=True, enqueue=True)
handler = FileCallbackHandler(logfile)
llm = OpenAI()
prompt = PromptTemplate.from_template("1 + {number} = ")
# this chain will both print to stdout (because verbose=True) and write
to 'output.log'
# if verbose=False, the FileCallbackHandler will still write to
'output.log'
chain = LLMChain(llm=llm, prompt=prompt, callbacks=[handler],
verbose=True)
answer = chain.run(number=2)
logger.info(answer)
```

API Reference:

- FileCallbackHandler from langchain.callbacks
- LLMChain from langchain.chains
- OpenAl from langchain.llms
- PromptTemplate from langchain.prompts
 - > Entering new LLMChain chain...

Now we can open the file output.log to see that the output has been captured.

```
pip install ansi2html > /dev/null
```

```
from IPython.display import display, HTML
from ansi2html import Ansi2HTMLConverter

with open("output.log", "r") as f:
    content = f.read()

conv = Ansi2HTMLConverter()
html = conv.convert(content, full=True)

display(HTML(html))
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</pre>
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8">
<title></title>
<style type="text/css">
.ansi2html-content { display: inline; white-space: pre-wrap; word-wrap:
break-word; }
.body_foreground { color: #AAAAAA; }
.body_background { background-color: #000000; }
inv_foreground { color: #000000; }
.inv_background { background-color: #AAAAAA; }
.ansi1 { font-weight: bold; }
ansi3 { font-style: italic; }
ansi32 { color: #00aa00; }
```

```
.ansi36 { color: #00aaaa; }
</style>
</head>
<body class="body_foreground body_background" style="font-size:</pre>
normal;" >
<span class="ansi1">&gt; Entering new LLMChain chain...
Prompt after formatting:
<span class="ansi1 ansi32"></span><span class="ansi1 ansi32">1 +
2 = </span>
<span class="ansi1">&gt; Finished chain.</span>
<span class="ansi32">2023-06-01 18:36:38.929</span> | <span</pre>
                   </span> | <span class="ansi36">__main__</span>:
class="ansi1">INFO
<span class="ansi36">&lt;module&gt;</span>:<span</pre>
class="ansi36">20</span> - <span class="ansi1">
3</span>
</body>
</html>
```