

Python Wikipedia API GitHub

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Time required: 60 minutes

Wikipedia

As part of saving the universe, there are times we need to do some research. What type of food do the aliens eat, are they immune to our germs, etc.

The Python Wikipedia library allows us to access information from Wikipedia. This is an older library which still works.

<https://pypi.org/project/wikipedia/>

pip install wikipedia

The rich library allows us to make our console programs bright with color.

pip install rich

Tutorial: Wikipedia

NOTE: Notice that the name of the file name is not wikipedia.py. If you use wikipedia.py, there will be a circular import error as Python cannot distinguish between the file and the library.

Create a Python program named **wikipedia_1.py**

Enter and test the following code.

```

1  """
2      Name: wikipedia_1.py
3      Author:
4      Created:
5      Purpose:
6  """
7
8  # pip install wikipedia
9  import wikipedia
10 # pip install rich
11 # Import Panel for title displays
12 from rich.panel import Panel
13 # Import Console for console printing
14 from rich.console import Console
15 # Initialize rich.console
16 console = Console()
17
18
19 def main():
20     # TODO: Print a nice title for our program
21     console.print(
22         Panel.fit(
23             " ----- Wikipedia App ----- ",
24             style="yellow",
25             subtitle="By Python Bill")
26     )
27     print()
28     while True:
29         # Type in your search term
30         question = console.input(
31             f"[yellow]Search Wikipedia (Enter to exit):[/yellow] "
32         )
33         if question == "":
34             console.print(f"[red]Later![/red]")
35             break
36         # Call the get_data function with the wikipedia search question
37         # Return the summary
38         summary = get_data(question)
39         print(summary)
40

```

```

42 def get_data(result):
43     try:
44         # Return a summary result of 3 sentences
45         summary = wikipedia.summary(result, sentences=3)
46         return summary
47     except:
48         # If there is an exception, return error message
49         summary = "Please try another search phrase"
50         return summary
51
52
53 # If a standalone program, call the main function
54 # Else, use as a module
55 if __name__ == '__main__':
56     main()

```

Example run:

```

-----  Wikipedia App  -----
-----  By Python Bill  -----

Search Wikipedia (Enter to exit): python programming
Python is a high-level, general-purpose programming language. Its design
philosophy emphasizes code readability with the use of significant
indentation. Python is dynamically typed and garbage-collected. It supports
multiple programming paradigms, including structured (particularly
procedural), object-oriented and functional programming.
Search Wikipedia (Enter to exit):
Later!

```

GitHub Assignment Submission

1. The code for this assignment is to be submitted to the assignment repository:

<https://classroom.github.com/a/yDTZmNX9>

The remaining part of the assignment goes in Blackboard.

1. It is sometimes difficult to tell from GitHub usernames which repository belongs to which student.
 - a. Take a screenshot of your GitHub repository or include your GitHub username.
2. Attach screenshots showing the successful operation of the program.
3. Submit in Blackboard.