4. A SMALL SEARCH ENGINE FOR WIKI

EX.N0 : 4	DEVELOP A SMALL SEARCH ENGINE FOR WIKI
DATE : /0 /2025	

AIM:

To write a program to Develop a small search engine for wiki

ALGORITHM:

Step 1: Start

Step 2: Import the wikipedia Python module.

Step 3: Accept a search query from the user.

Step 4: Use wikipedia.search() to get related article titles

Step 5: Display the top 5 related titles

Step 6: Use wikipedia.summary() and wikipedia.page() to fetch and display the summary of the top article

Step 7: Handle possible exceptions (disambiguation, page error)

PROGRAM:

```
import wikipedia
def search_wiki():
print("🔍 Simple Wikipedia Search Engine 🔍")
query = input("\nEnter your search query: ")
try:
results = wikipedia.search(query)
if not results:
print("No matching results found.")
return
```

```
print(f"\nTop results for '{query}':")
for i, title in enumerate(results[:5], 1):
print(f"{i}. {title}")
top_title = results[0]
summary = wikipedia.summary(top_title, sentences=5)
print(f"\n--- Summary of '{top_title}' ---\n")
print(summary)
except wikipedia.exceptions.DisambiguationError as e:
print("\nYour query is ambiguous. Try one of these:")
print(", ".join(e.options[:5]))
except wikipedia.exceptions.PageError:
print("\nThe requested page could not be found.")
except Exception as ex:
print("\nAn error occurred:", ex)
search_wiki()
```

OUTPUT:

```
🔍 Simple Wikipedia Search Engine 🔍

Enter your search query: Artificial Intelligence

Top results for 'Artificial Intelligence':
1. Artificial intelligence
2. Artificial general intelligence
3. Generative artificial intelligence
4. A.I. Artificial Intelligence
5. Existential risk from artificial intelligence

--- Summary of 'Artificial intelligence' ---

Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intell
igence, such as learning, reasoning, problem-solving, perception, and decision-making. It is a field of research in computer sc
ience that develops and studies methods and software that enable machines to perceive their environment and use learning and in
telligence to take actions that maximize their chances of achieving defined goals.
High-profile applications of AI include advanced web search engines (e.g., Google Search); recommendation systems (used by YouT
ube, Amazon, and Netflix); virtual assistants (e.g., Google Assistant, Siri, and Alexa); autonomous vehicles (e.g., Waymo); gen
erative and creative tools (e.g., language models and AI art); and superhuman play and analysis in strategy games (e.g., chess
and Go). However, many AI applications are not perceived as AI: "A lot of cutting edge AI has filtered into general application
s, often without being called AI because once something becomes useful enough and common enough it's not labeled AI anymore."
Various subfields of AI research are centered around particular goals and the use of particular tools. The traditional goals of
AI research include learning, reasoning, knowledge representation, planning, natural language processing, perception, and suppo
rt for robotics.
```

RESULT:

Thus a program to develop a small search engine for wiki has been executed successfully.