**Que.1-Using re.search() and re.match() functions in Python’s re module for pattern matching.**

**Ans.**

The re module in python provides powerful tools for working with regular expressions,allowing you to search for and manipulate text patterns. Two commonly used functions are re.search() and re.match().

* **Re.search()**
* Syntax:--

import re

result = re.search(pattern, string, flags=0)

* Example:--

import re

pattern = r'\bhello\b'

string = 'Say hello to everyone!'

match = re.search(pattern, string)

if match:

print("Pattern found:", match.group())

else:

print("Pattern not found")

* **Re.match()**
* Syntax:--

import re

result = re.match(pattern, string, flags=0)

* Example:--

import re

pattern = r'hello'

string = 'hello world!'

match = re.match(pattern, string)

if match:

print("Pattern found:", match.group())

else:

print("Pattern not found")

**Que.2-** **Difference between search and match.**

**Ans.**

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| Search   * Searches for a pattern anywhere in the string. * Used when the pattern can appear anywhere in the text. * Ex.,   import re  string = 'Hello world'  pattern = 'world'  match = re.search(pattern, string)  if match:  print("Pattern found:", match.group())  else:  print("Pattern not found") | Match   * Checks for a pattern only at the beginning of the string. * Used when the pattern must appear at the start of the text. * Ex.,   import re  string = 'Hello world'  pattern = 'Hello'  match = re.match(pattern, string)  if match:  print("Pattern found:", match.group())  else:  print("Pattern not found") |