



TOPSTechnologies

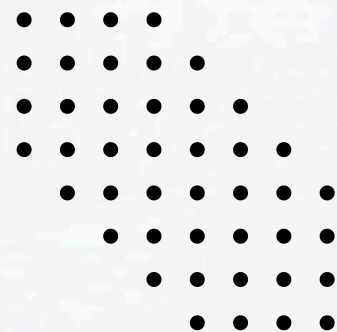
Search and Match Functions

Presented for :

TOPs Technologies

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Que 1

1. re.search()

- Scans the entire string for the first location where the pattern matches.
- Returns a match object if a match is found, else returns None.
- Useful when the pattern may appear anywhere in the string.

Basic syntax:

```
import re
```

```
text = "Hello, my number is 12345."  
pattern = r"\d+" # Matches one or more digits
```

```
match = re.search(pattern, text)
```

```
if match:
```

```
print("Found:", match.group()) # Output: Found: 12345
```

2. re.match()

- Checks for a match only at the beginning of the string.
- Returns a match object if the pattern is found at the start, else returns None.
- Useful when you expect the string to start with a specific pattern.

Basic Syntax:

```
import re
```

```
text = "12345 is my number."  
pattern = r"\d+" # Matches one or more digits
```

```
match = re.match(pattern, text)
```

```
if match:
```

```
print("Found:", match.group()) # Output: Found: 12345
```

Que. 2

Feature	<code>re.search()</code>	<code>re.match()</code>
Search Scope	Searches the entire string	Only checks the beginning of the string
Returns	First occurrence of the match anywhere in the string	Match only if it appears at the start of the string
Use Case	When the pattern may appear anywhere	When the pattern must start the string
Example (Matching in Middle)	✅ Matches in <code>"Hello 123"</code>	❌ Does not match in <code>"Hello 123"</code>
Example (Matching at Start)	✅ Matches in <code>"123 Hello"</code>	✅ Matches in <code>"123 Hello"</code>