**10 ) Search and Match Functions**

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

Python provides a built-in re module that allows working with regular expressions (regex) — a powerful tool for pattern matching in strings.

1. **re.match()**

* The re.match() function checks for a match only at the beginning of the string.
* If the pattern matches from the start, it returns a match object.
* If the pattern is not at the beginning, it returns None.
* Use re.match() when you want to verify if a string starts with a specific pattern.

1. **re.search()**

* The re.search() function scans the entire string for the first location where the pattern matches.
* It returns a match object if found anywhere in the string.
* Use re.search() when the pattern can appear anywhere in the string, not just at the beginning.
* **Using re.search() and re.match() functions in Python’s re module for pattern matching.**

1. **re.search()**

* Searches the entire string for the first occurrence of the pattern.
* Returns a match object if found, else None
* Works anywhere in the string.
* Useful for finding patterns.

1. **re.match()**

* Checks only at the start of the string.
* Returns a match object if the pattern matches at the beginning, else None.
* Only checks the beginning of the string.
* Useful for validation