

Day 39

10/04/2025

→ Key: Value (pair)

JSON → JavaScript Object Notation.

↓ (Newtonsoft.Json) → Framework
lightweight data interchange format

↓
easy to read and write ~~both~~ both
Human & machines

used for (widely).

transmitting data between a server
and client in web applications

JSON → supported in multiple languages
eg: C#, Java, Python,
JavaScript.

Big - O notation → program speed

* Big - O notation tell how fast
an operation is done..

1) $O(1)$ \rightarrow constant time.

2) $O(n)$ \rightarrow Linear time \leftarrow

3) $O(\log n)$ \rightarrow Logarithmic time.

\rightarrow no growth in operations
eg:- (get value using key) \rightarrow get straight answer

number of operations is proportional to the growth of items. (eg: check all the item to get the answer)

\rightarrow growth of operations is smaller than the number of items. (eg: it check item by dividing the item by half to get the answer)

\Rightarrow \rightarrow Lambda expression

List<int> nums = new List<int>() { 1, 2, 3, 4 };

~~var sum = 0~~ ~~nums~~ where (item) \Rightarrow item % 2 == 0

(parameter \Rightarrow expression) variable Lambda expression

List<int> nums = sum.ToList();

var data = ~~sum~~ sum . First() ;

{ 1, 2, 3, 4 } return the First
→ (Return 1) data .

→ if no data means
error .

var data = sum . First or default() ;

return the First
data .

if no data means
return default
value .

orderby ascending

~~var emp~~ var emp = listname . orderby (item => item)

orderby descending