Oterators - Adv. Python concepts that allow for efficient boping & memory management.

The provide a way to acres elements of a collection sequentially without exposing the underlying correcture.

Steretor = Her (my list)

# to iterde through all element: next (Herator) 11 frints all elements

come

Generators: These are a simpler way to create iterators.

- May use the field keywood to produce a series of values lovely which means they generate values on the fly & do not store them in memory.
- -) lasticularly useful for reading large files because they allow you to process one line at a time northout loading the entire file into memory.

Or dan method.

is they are commonly used to add functionally to functions on methods without modifying their actual code.

the day of Soute - self contained, serverlers, and zero -confront Bardard larguage for database expine that is widely used managing & manipulating for embedded data-boxe systems - relational databases. I Import sqlite3) Connection = salltes. connect (i example: db) Gannection Curses = consection cursos cussor execute (" # create table or intent values or update values or delate (ensection committe) # count charges cussor. execute (I siled & from employers') Nous = cursor. Setchall () gos sor is some : (mas) trial H lython Logging - provides a way to track events, and errors & operational information. -> lythonu built in logging module offers a flexible framework for enothing log messages from bython programs integ lodding # configure basic logging settings Togging basic (only Clerch=logging. DEBUW) # log menopes [logging deby (" hunge") ("A"), obii. bub 601 ( sineam hearing ( a mason) (" ") sous . Euglos 1000ing. (2) to cat (" ")

I tegging module has several log levels indicating severity of end Répart levels are: DEBUCK, INFO, WARNING, ERFOR, CRITICAL Togger= logging. gettogger ("module") logger. bothered (logging. Deby) # Memory Management noth lython -> Combination of automatic garbage collection, reference counting, and ranious internal optimizations to efficiently manage memory allocation & deallocation. -> Reference counting: It is the primary method bythen uses to manage memory. Each object in lython maintains a count of references pointing to it. When the reference court doops to zero, the memory occupied by the object is deallocated. import says Q=[] Print(sys. get of court (a)) - Garbage Collection: Python includes a cyclic garbage Collector to hardle reference cycles. Reference cycles occur when Objects reference each other preventing their reference Courts from reaching zero. Jubort de (gc. enablec) [gc. disable()] [gc. alled] (gr.

- > Manury management book practices?
  - 1) Use local reviewles
  - 2) Moid circular references
  - 3) Use generators
  - 4) Explicitly delete objects
  - s) profile monory usuage