1) . What is the difference between enclosing a list comprehension in square brackets and parentheses?

**Ans. Enclosing a list comprehension in square brackets gives the result list all at once when they are** **enclosed in parentheses then it becomes generator expressions.**

2) What is the relationship between generators and iterators?

**Ans. Generators are objects that support the iteration protocol. It repeatedly advances the next** **item in series of results and raises an exception at the end of series.**

3) What are the signs that a function is a generator function?

**Ans. A generator function has a yield statement in its code which differentiate it with normal** **functions.**

4) What is the purpose of a yield statement?

**Ans. When yield statement is run, it sends a result back to the caller, and suspends the function’s** **state; the function can then be resumed in response to a next method call at the caller continuing** **after the last yield statement.**

5) What is the relationship between map calls and list comprehensions? Make a comparison and contrast between the two.

* **List comprehension is more concise and easier to read as compared to map.**
* **List comprehension allows filtering whereas In map, we have no such facility.**
* **List comprehension are used when a list of results is required as map only returns a map object and does not return any list.**
* **List comprehension is faster than map when we need to evaluate expressions that are too long or complicated to express**
* **Map is faster in case of calling an already defined function (as no lambda is required).**