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

Ans: List comprehension in sq brackets gives a list whereas in paranthesis gives a generator object.

2) What is the relationship between generators and iterators?

Ans: An iterator is an object which contains a countable number of values and it is used to iterate over iterable objects like list, tuples, sets, etc.

Generator is another way of creating iterators in a simple way where it uses the keyword “yield” instead of returning it in a defined function.

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

Ans: it remembers the last value and the logic to produce next value,it doesn’t occupy memory and the value it gives doesn’t have datatype none. Generator function generally uses yield.

4) What is the purpose of a yield statement?

Ans: yield helps to remember the last value and the logic to produce next value,it doesn’t occupy memory

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

Ans:Both help to iterate but map is used when each value is mapped against certain value whereas list comprehension can be used to get a list of values following certain conditions but in map calls each value should follow the given condition