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

Ans: If list comprehension enclosed in parenthesis it is a generator expression and is assigned to variable type generator whereas square bracket assign variable of list type

2) What is the relationship between generators and iterators?

Ans: Generators is a way of creating iterator. Generator returns a sequence in iterable format.

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

Ans: If the function has yield statement instead of return.

4) What is the purpose of a yield statement?

Ans: It gives a iterable sequence. It doesn’t store entire sequence and doesn’t destroy local variable.

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

Ans: The map function takes an Expression and an Iterable. The output will be an Iterable object where the expression will work on each element of the given Iterable. The output of each expression will be an element of the resultant Iterable.

List Comprehension is used for creating a list where each element is generated by applying a simple formula on the given list.