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

When we want to create a list in python we use list comprehension methods. We generally tend to use square brackets methods to create or define a list as it is easier to create the list with that. The parenthesis are also used to create the list but for that we to define particularly that it is a list.

1. What is the relationship between generators and iterators?

Generator objects stores the values inside them and prints or shows if we use iterator functions to iterate through them.

1. What are the signs that a function is a generator function?

In jupyter notebook whenever we type any generator function(s), it will show the “gen [some values] written in that.

1. What is the purpose of a yield statement?

Yield is used to return value from the function without destroying or changing state of the local variables of the defined functions.

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

List comprehensions are easier to use as they return only list while the map functions return map object.

Map functions are faster than list comprehension functions.