**Assignment-25**

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

**Answer :-**

**Square brackets are list while parenthesis are tuples.**

Q.2 => What is the relationship between generators and iterators?

**Answer :-**

**Iterators are object that use next() method to call next value of sequence.**

**Generators are function that produce a sequence of value using yield statement.**

Q.3 => What are the signs that a function is a generator function?

**Answer :-**

**If function contain at least one yield statement it become a generator function.**

Q.4=> What is the purpose of a yield statement?

**Answer :-**

**The yield statement return a generator object to the one who call the function which contain yield statement, instead of returing simply value.**

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

**Answer :-**

**List comprehensions return a list whereas map function return a object of iterable.**

**List comprehension is faster than that of map function when the formula function is huge and complex.**

**Map function is faster then list comprehension when the formula is already defined as a function earlier.**