**Assignment\_25**

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

**Ans : The difference between the two kinds of expression is that the List comprehension is enclosed in square brackets [] while the generator expression is enclosed in plain parentheses.**

2) What is the relationship between generators and iterators?

**Ans: Iterators are used mostly to iterate or convert other objects to an iterator using iter() function.**

**Generators are mostly used in loops to generate an iterator by returning all the values in the loop without affecting the iteration of loop**.

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

**Ans : If a function contains at least one yield statement it becomes a generator function.**

4) What is the purpose of a yield statement?

**Ans: Yield function provides a value to the code over the generator and pause execution of generator function.**

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

**Ans:**

* **List comprehension is more easier to read as compared to map.**
* **List comprehension is used when a list of results is required as map onlu returns a map object and does not return any list.**