**Final Project Part B**

**Submitted by:**

Yuval Hizki - 204759062

Lior Avraham - 209234673

**Questions 1 – 6, 8**:

These are included in the attached file partB.py.

**Question 7:**

Lazy evaluation is a programming concept that describes a situation where an expression is not computed immediately; instead, the computation is deferred until its value is actually needed. This can lead to more efficient use of resources because computations are performed only when necessary.

For the Eager Evaluation part:

This section calls the generate\_values function, which is a generator. However, because this call is wrapped under list(), it forces the computation of all values immediately, and they are all stored in memory at once.

For the Lazy Evaluation part:

This section does not call list(generate\_values()); instead, it directly iterates over the generator. Each time, the generator provides a different value (in the order mentioned: 1, 2, 3) to the square function, where the squares of the values it receives are computed. In other words, each value is computed only when needed, not all at once. This section offers better performance and memory management compared to the previous section.