

Codio Activity: The Producer-Consumer Mechanism

1. Q1. How is the queue data structure used to achieve the purpose of the code?

A1. The queue data structure uses input data items using the `put` function and the `get` function to retrieve data items from the queue object.

2. Q2. What is the purpose of `q.put(l)`?

A2. To insert a data item inside the queue.

3. Q3. What is achieved by `q.get()`?

A3. Present items in the queue are retrieved.

4. Q4. What is achieved by `q.get()`?

A4. A Python program is prevented from exiting until a signal is received from the `task_done` function.