Crystal method by Cockburn is a collection of various agile approaches which focuses primarily on people and interaction among them while they work together for a project. It also prefer community, skills, talents and communications. The crystal family is divided into different colors namely;

1. **Crystal clear - Up to 6 people**
2. **Crystal yellow - Up to 20 people**
3. **Crystal orange - Up to 40 people**
4. **Crystal red - Up to 80 people**
5. **Crystal maroon - Up to 200 people.**

These colors are based on the size of the team. There 4 criticalities in crystal;

1. **Life(L)** : Safety critical.
2. **Essential Money (E)** : Company may fail, if the project fails.
3. **Discretionary Money (D)** : The company will survive, even after the failure.
4. **Comfort (C)** : No comfort to the stake holders.
5. **Self-parking, where the car parks itself without human assistance:**

This feature requires only 4 to 6 people in the team. So, **crystal clear** is the appropriate method. The programmer is the main person who does programming of self-parking. The tester tests the feature.

1. **Automatic lane change where the car changes lanes automatically when the driven hits the turn signal:**

The automatic lane change feature requires **crystal orange**. The team consists of 21 to 40 people to complete the module. Each feature will be taken care by different roles. The UI designer will design the display board in the car. The lead designer will design the working of the system. The technical facilitator helps with the technical working of the system. Usage expert will help with the usage of different parts to be used like camera, radar, lidar and other sensing objects. Each one will have a job to do. No one will be idle.

1. **Honk the horn when appropriate to warn pedestrians and other drivers:**

The honk feature can be implemented using **Crystal yellow**. The team involves 7 to 20 people to implement the feature. The UI design, Sensor working, Testing are the major activities carried out. Experts are available in the team to take ownership of each class.

The project success depends on certain **factors** like;

**Frequent delivery:** Regular release of iterations. By releasing iterations, stake holders will be able to spot problems earlier. It will save the last-minute hassle. With crystal, a collection of iterations is gathered and delivered in a single release.

**Reflective improvement:** In crystal clear, osmotic communication is practiced in which the team is collocated in a room.

**Personal safety:** The people in the team must be able to trust each other and feel free to speak.

**Focus:** Crystal refers to two focuses viz; focus on individual task for enough time and direction in which the project is heading.

**Easy access to expert users:** Crystal appreciates expert advice and solution suggestion for problems.

**Technical environment:** It is with automated test cases , configuration management and frequent integration. This helps in quicker unit test.