22. Which inheritance is not supported by Dart? Why? What is advantage of inheritance?

Dart does not support multiple inheritance.

This design choice is made to keep the language simple and avoid the complexities and ambiguities that can arise from multiple inheritance, such as the diamond problem.

Advantage of inheritance:

1. **Code Reusability:** Inheritance allows for the reuse of code from existing classes. Subclasses inherit attributes and behaviours from their super classes, reducing the need to duplicate code.
2. **Extensibility:** Subclasses can extend or override the functionality of their super classes. This enables the creation of specialized classes that add or modify features while retaining the characteristics of the base class.
3. **Polymorphism:** Inheritance supports polymorphism, allowing objects of a subclass to be treated as objects of the superclass. This promotes flexibility in designing and using classes.
4. **Organizational Structure:** Inheritance helps in organizing and structuring code by creating a hierarchy of classes. This hierarchy reflects relationships and commonalities among different types of objects in a program.
5. **Maintenance and Updates:** Changes made to a superclass automatically affect all its subclasses. This simplifies maintenance and updates, as modifications in one place can propagate throughout the hierarchy.