21. What is inheritance?

* Inheritance is a concept in object-oriented programming.
* Inheritance is a programming concept where a new class can inherit properties and behaviours from an existing class.
* This allows for code reuse, creating a hierarchy of classes, and enabling the subclass to use, override, or extend the features of the superclass.
* There are five types of inheritance:

1. **Single Inheritance:**
   * A class can inherit from only one superclass. The subclass inherits the attributes and behaviours of a single parent class.
2. **Multiple Inheritance:**
   * A class can inherit from more than one superclass. This allows the subclass to inherit attributes and behaviours from multiple parent classes.
3. **Multilevel Inheritance:**
   * Involves a chain of inheritance where a subclass becomes a superclass for another class. It forms a hierarchy of classes.
4. **Hierarchical Inheritance:**
   * Multiple classes inherit from a single superclass. Each subclass shares common attributes and behaviours from the same parent class.
5. **Hybrid Inheritance:**
   * Combination of two or more types of inheritance. For example, a combination of single and multiple inheritance.