Difference between inheritance and polymorphism.

Ans :

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| Part | Inheritance | Polymorphism |
| Definition | Inheritance is a mechanism by which a class can inherit properties and behaviors (attributes and methods) from another class. | Polymorphism is a concept that allows objects of different classes to be treated as objects of a common superclass. |
| Usage | Used to create a hierarchy of related classes, promoting code  reuse and specialization. | Used to enable dynamic method invocation, allowing different objects to respond to the same method call in a class-specific way. |
| Implementation | The derived class inherits both the attributes and methods of the base class | Polymorphism is achieved through method overriding and interfaces in object-oriented programming languages. |
| Keyword | extends | No specific keyword |
| Types | Single inheritance, Multilevel inheritance and Hierarchical inheritance. | Runtime (Method overriding). |