Medium question of an OOP Activity

Question:

Explain polymorphism with types.

Answer:

Polymorphism: It allows objects of different types to be treated as objects of a common base type.

Types of polymorphism:

1- Compile Time (Static)
2- Run Time (Dynamic)

Compile Time (Static):

Function Overloading: Where a class can have multiple methods with the same name but different parameter lists (different types or numbers of parameters).

Operator Overloading: Additional tasks to operators without changing its actual meaning. We do this by using operator function. The purpose of operator overloading is to provide a special meaning to the user-defined data types.

Run Time (Dynamic):

Method Overriding: Where a derived class provides a specific implementation for a method that is already defined in its base class.