Visitor Design Pattorn

The **Visitor Pattern** is a behavioral design pattern that separates an algorithm from the objects it operates on. It allows you to add new operations to a group of classes without modifying their structure. This is achieved by creating a visitor object that implements the desired operations, and this visitor object is passed to the elements it will operate on.

Key Concepts:

- 1. Visitor Interface:
 - Declares methods for each type of object that can be visited.
- 2. Concrete Visitor:
 - Implements the operations to be performed on the elements.
- 3. Element Interface:
 - Declares an accept method that takes a visitor object.
- 4. Concrete Elements:
 - Implement the accept method to call the visitor's method corresponding to their type.
- 5. Client:
 - Traverses elements and passes the visitor to them.