**13.** **Difference between HTTP Servlet and Generic Servlet**

**• Theory:**

**1.Explanation of the servlet life cycle: init(), service(), and destroy() methods.**

**init() Method**:

* Initializes the servlet when it’s first loaded.
* Once, when the servlet is loaded into memory.
* **Example**: Set up resources like database connections.

**service() Method**:

* Handles each client request (e.g., from a browser).
* Every time the servlet is requested.
* **Example**: Processes the request and sends a response.

**destroy() Method**:

* Cleans up when the servlet is no longer needed.
* When the servlet is being destroyed or the server is shutting down.
* **Example**: Close resources like database connections.