CW12-2: Python HTTP Server - Assertion – Testing

1. **Python HTTP Server:**

   Design a Python HTTP server that implements a simple todo program. The server should handle GET and POST requests to manage a todo list.

   a) Implement a Python HTTP server that listens on a specific port.
   b) On a GET request to the root ("/") endpoint, the server should return the current todo list as a JSON-like response.
   c) The todo list should be initially empty.
   d) The response should include the appropriate headers to indicate the content type as "application/json".
   e) On a POST request to the root ("/") endpoint, the server should create a new todo item.
   f) The server should expect the todo item as a JSON payload in the request body.
   g) The todo item should have properties such as "id," "title," and "description".
   h) Append the new todo item to the existing todo list.
   i) Test your server using a tool like **curl** or **requests** module.
   j) Make a GET request to retrieve the current todo list and ensure it is initially empty.
   k) Make a POST request to create a new todo item with appropriate JSON payload. Make another GET request to verify that the new todo item is added to the list.