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/** raw node http server
 * used for learning node
 *
 * Required Dependencies:
 * npm install http // for http package
 * npm install http-status-codes // for http status codes package
 *
 * Start Server using (at command line):
 * node svr.js
 *
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 */

const
  // HTTP Server and Client Package
  // for Managing http (req,res) transactions
  http = require('http'),

  // HTTP Protocol Status Codes Package (in object form)
  httpStatus = require('http-status-codes'),

  // TCP/IP Port and Host address used for listening
  port = 3003,
  host = '0.0.0.0', // ANY address

  // Create an HTTP server to process (req,res) transactions
  app = http.createServer((request, response) => {
    // Log start of transaction to console
    console.log("Received an incoming request!");

    // Begin forming a response back to the client
    // set response object result code to be OK (200)
    // and the Content-Type header to indicate HTML
    // is being sent back to the client in the response
    response.writeHead(httpStatus.OK, {
      "Content-Type": "text/html"
    }); // end writeHead

    // store the response body HTML to send back to client
    let responseMessage = "<h1>Hello, Universe!</h1>";

    // write the response body into the response object
    response.write(responseMessage);

    // end (and send to the client) the response object
    response.end();

    // Log the response body that was sent back to the client
    console.log(`Sent a response : ${responseMessage}`);
  }); // end createServer

// bind the HTTP server to the ANY and Port listen address
// and start listening for client connection requests
app.listen(port,
'0.0.0.0');

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// Log to the console the port on which the HTTP server is listening
// for client connection requests
console.log(`The server has started and is listening on port number:
${port}`);
```