**Course Name:** Web Technology

**Course Code:** BCS 502

**Assigment-2**

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| **S.NO** | **Description** | **Marks** | **BL/KC** |
| 1 | Explain how AJAX improves the user experience in a web application. Provide an example of how to implement an AJAX request to fetch data from a server without reloading the page. | 4 | 3/P |
| 2 | Describe the lifecycle of a Servlet in Java. How can you use Servlets to handle HTTP GET and POST requests? Provide a simple code example to demonstrate both. | 4 | 3/P |
| 3 | What are Java Server Pages (JSP), and how do they differ from Servlets? Write a basic JSP page to display a dynamic message based on user input. | 4 | 3/P |
| 4 | Explain the concept of non-blocking I/O in Node.js and how it helps in building scalable applications. Write a code snippet demonstrating how to create a simple HTTP server using Node.js. | 4 | 3/P |
| 5 | What are the advantages of using MongoDB over traditional relational databases? Write a MongoDB query to insert multiple documents into a collection and another query to retrieve documents with a specific condition. | 4 | 3/P |