

Question 1: What is a thread exactly?

Ans: A lightweight process that can run concurrently with other threads

Question 2: How is JavaScript single-threaded? With examples.

Ans: JavaScript can only execute one operation at a time

Question 3: What is the purpose of the Event Loop in JavaScript?

Ans: To handle asynchronous code execution and manage the callback queue

Question 4: How can we block the main thread in JavaScript?

Ans: By using synchronous functions with long-running tasks

Question 5: What is AJAX?

Ans: A technique for making asynchronous HTTP requests

Question 6: What is the primary advantage of asynchronous programming in JavaScript?

Ans: It allows multiple tasks to be executed simultaneously, improving performance and responsiveness

Question 7: How does JavaScript handle asynchronous operations?

Ans: By using event loop and callback functions to manage asynchronous tasks asynchronously