

Q.1. What are promises? Why are they used?

Ans:- A promise in JavaScript is similar to a promise we do in real life. When we make a promise, it is a guarantee that in future, we are going to do something. A promise has two possible outcomes: it will be kept when the time comes, or it will not. Similarly, in JavaScript, when we define a promise, either it will be resolved when the time comes, or it will get rejected. According to MDN, “the Promise object represents the eventual completion (or failure) of an asynchronous operation and its resulting value.

Promises are used to handle asynchronous operations in JavaScript. They are easy to manage when dealing with multiple asynchronous operations where callbacks can create callback hell leading to unmanageable code. Prior to promises events and callback functions were used but they had limited functionalities and created unmanageable code.

Multiple callback functions would create callback hell that leads to unmanageable code.