**Polyfill**

A polyfill is a piece of code that enables the usage of new programming language or web platform features in outdated browsers or environment that do not support them.

The need for Polyfills

1. **New features**

Polyfills enable programmer to use cutting-edge functions of a web platform or programming language in older browser or environments that don’t support them.

1. **Browser compatibility**

The latest features of a programming language or web platform may not be supported by all browsers and environments, which can cause compatibility problems for developers. Polyfills aid in ensuring that the code functions consistently on various browsers and gadgets.

Benefits of polyfills

Better user experience

Polyfills allow developers to improve user experience by adding features and capabilities, even in older browsers.

Reduced development tim

By enabling developers to use new capabilities without having to write specific code for older browsers, polyfills can save developers a significant amount of effort.

Cost effective

Using polyfills save money by preventing the need to design specialized solutions for every browser or device by ensuring that our code works on a variety of browser and mobile device.

Enhanced security

Using polyfills can also increase security by offering a different implementation of a feature that might have security flaws in earlier browser versions.

Better cross browser compatibility

Polyfill enable programmer to use new capabilities of a programming language or web platform in situation or environment that don’t support them, ensuring that their code functions reliably across various browsers and devices.

Future proofing

By incorporating new capabilities that might become standards in upcoming iterations of the programming language or web platform, developers can future proof their code by utilizing polyfills