**Describe how HTTPS is different from HTTP. (not less then 250 words)**

HTTP (Hypertext Transfer Protocol) and HTTPS (Hypertext Transfer Protocol Secure) are both protocols used to transfer data over the internet. However, the primary difference between the two lies in the level of security they provide.

HTTP is the standard protocol used for transferring data on the internet. It is a plain text protocol, meaning that data sent over HTTP is not encrypted, and can be easily intercepted and read by anyone with access to the network. This poses a significant security risk for users, as sensitive information such as passwords, credit card numbers, and personal data can be easily compromised.

HTTPS, on the other hand, is a secure version of HTTP that encrypts data sent between a user's browser and a web server. This encryption is achieved using a protocol called SSL/TLS (Secure Sockets Layer/Transport Layer Security), which ensures that data is encrypted and decrypted only by the intended parties. HTTPS provides a higher level of security compared to HTTP, making it ideal for websites that deal with sensitive data such as e-commerce sites, online banking, and social media sites.

When a user visits a website using HTTPS, the browser and the web server exchange digital certificates to establish a secure connection. The digital certificate contains information about the website and the organization that owns it, and is issued by a trusted third-party called a Certificate Authority (CA). The digital certificate helps to verify the authenticity of the website and ensures that data is encrypted and protected from unauthorized access.

In summary, HTTPS is different from HTTP in that it provides a higher level of security by encrypting data sent between a user's browser and a web server. This encryption ensures that sensitive information is protected from interception and helps to maintain the integrity and authenticity of the website. As such, HTTPS is essential for websites that deal with sensitive data and should be implemented by all website owners to protect their users' information.

**Make an HTML page using the tags and attributes we learned and push it in a public GitHub repository and place the link.**

<!DOCTYPE html>

<html>

<head>

<title>My HTML Page</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<style>

h1 {

color: red;

font-size: 36px;

}

p {

font-size: 24px;

}

</style>

</head>

<body>

<header>

<h1>Welcome to my HTML Page</h1>

<nav>

<ul>

<li><a href="#">Home</a></li>

<li><a href="#">About</a></li>

<li><a href="#">Contact</a></li>

</ul>

</nav>

</header>

<main>

<section>

<h2>About Me</h2>

<p>My name is John Doe and I am a web developer.</p>

<p>I have experience in HTML, CSS, and JavaScript.</p>

<p>Contact me if you need a website built!</p>

</section>

<section>

<h2>My Projects</h2>

<ul>

<li><a href="#">Project 1</a></li>

<li><a href="#">Project 2</a></li>

<li><a href="#">Project 3</a></li>

</ul>

</section>

</main>

<footer>

<p>&copy; 2023 John Doe</p>

</footer>

</body>

</html>