Experiment No. 4

1. **Title:** Webpage Designing Using HTML

2. **Objective:** To design a visually captivating webpage utilizing HTML and CSS, employing advanced layout techniques and styling elements to enhance user engagement and aesthetic appeal.

3. **Key Concepts:** HTML structure, CSS styling, including background images, navigation bars, and text formatting.

4. **Algorithm:**
   I. Define the structure of the webpage using HTML tags such as <html>, <head>, <body>, <header>, <nav>, <section>, <div>, <a>, and <h1>.
   II. Utilize CSS for styling elements such as fonts, colors, sizes, alignments, and transitions.
   III. Incorporate a background image using the background-image property in CSS.
   IV. Create a navigation bar with links using the <nav> and <a> tags.
   V. Style the navigation bar and links using CSS, including hover effects.
   VI. Design a call-to-action button with a link.
   VII. Ensure responsiveness using CSS media queries.

5. **Program:**

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Landing page </title>
    <style type="text/css">
        *{padding:0; margin:0;box-sizing: border-box;}
        header{
            width: 100%;
            height: 100vh;
            background:linear-gradient(rgba(0,0,0,0.8),rgba(0,0,0,0.2)),
url('img/photo.jpg');
```
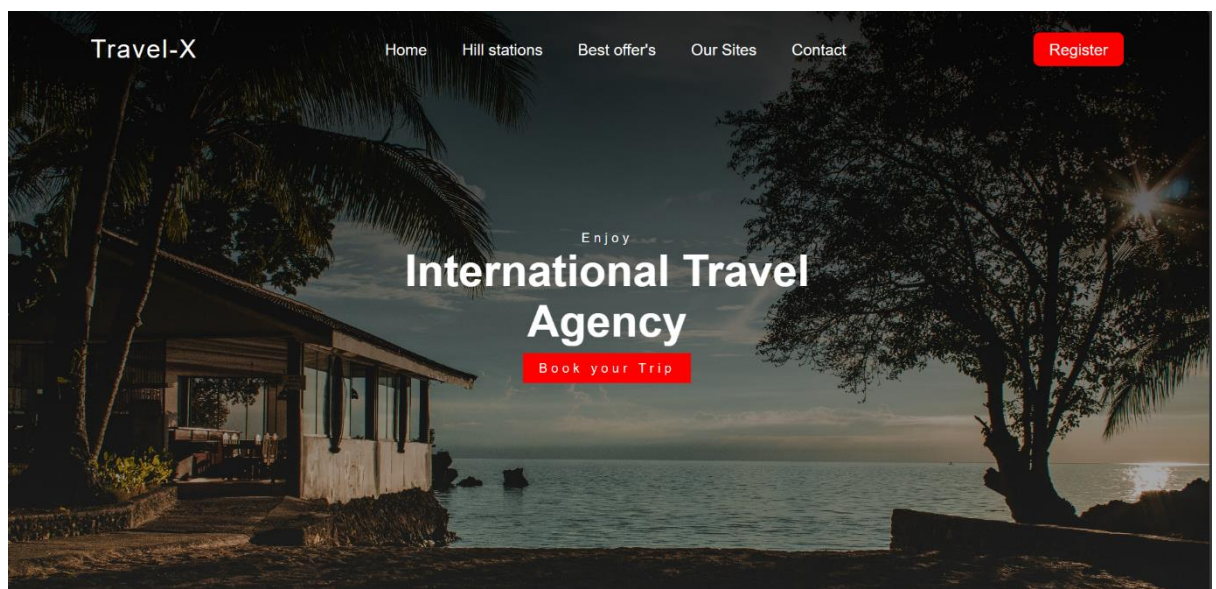
```css
    background-size:cover;
    font-family: sans-serif;
}
nav{
    width: 100%;
    height: 100px;
    color: white;
    display: flex;
    justify-content: space-around;
    align-items: center;
}
.logo{
    font-size: 2em;
    letter-spacing: 2px;
}
.menu a{
    text-decoration: none;
    color: white;
    padding: 10px 20px;
    font-size: 20px;
    position: relative;
}
.menu a:before{
    content: '';
    position: absolute;
    top: 0;
    left: 0;
    width: 0%;
    height: 100%;
    border-bottom: 2px solid red;
    transition: 0.4s linear;
}
.menu a:hover:before{
    width: 90%;
}
.register a{
    text-decoration: none;
    color: white;
    padding: 10px 20px;
    font-size: 20px;
    background: red;
    border-radius: 8px;
    transition: 0.4s;
}
.register a:hover{
    background: transparent;
    border: 1px solid red;
}
```

```css
        .htxt{
            max-width: 650px;
            position: absolute;
            top: 50%;
            left: 50%;
            transform: translate(-50%, -50%);
            text-align: center;
            color: white;
        }
        .htxt span{
            letter-spacing: 5px;
        }
        .htxt h1{
            font-size: 3.5em;
        }
        .htxt a{
            text-decoration: none;
            background: red;
            color: white;
            padding: 10px 20px;
            letter-spacing: 5px;
            transition: 0.4s;
        }
        .htxt a:hover{
            background: transparent;
            border: 1px solid red;
        }

    </style>
</head>
<body>
    <header>
        <nav>
            <div class="logo">
                Travel-X
            </div>
            <div class="menu">
                <a href="#">Home</a>
                <a href="#">Hill stations</a>
                <a href="#">Best offer's</a>
                <a href="#">Our Sites</a>
                <a href="#">Contact</a>
            </div>
            <div class="register">
                <a href="#">Register</a>
            </div>
        </nav>
            <section class="htxt">
```

```
                    <span>Enjoy</span>
                    <h1>International Travel Agency</h1>
                    <br>
                    <a href="#">Book your Trip</a>
            </section>
    </header>

</body>
</html>
```

6. Output:

7. Conclusion:

Through this experiment, a basic understanding of webpage design using HTML and CSS has been achieved. Concepts such as structuring HTML documents, styling elements, and creating interactive components like navigation bars and buttons have been explored. This lays a foundation for further exploration into web development and design.