a) Develop a HTML program, that makes use of <article>, <aside>, <figure>, <figcaption>,<footer>, <header>, <main>, <nav>, <section>, <div>, <span> tags.

```html
<!DOCTYPE html>

<html>

<head>

  <title>Semantic HTML Example</title>

</head>

<body>

  <header>

    <h1>Welcome to My Website</h1>

    <nav>

      <ul>

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

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

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

      </ul>

    </nav>

  </header>


  <main>

    <section>

      <h2>About Us</h2>

      <p>This is an example of a semantic HTML document.</p>

    </section>


    <article>

      <h2>Latest News</h2>
```

```html
      <p>Semantic HTML helps improve SEO and accessibility.</p>

      <figure>

        <img src="image.jpg" alt="Sample Image">

        <figcaption>An example image with a caption.</figcaption>

      </figure>

    </article>


    <aside>

      <h3>Related Articles</h3>

      <p>Check out other articles related to web development.</p>

    </aside>

  </main>


  <footer>

    <p>&copy; 2025 My Website. All rights reserved.</p>

  </footer>

</body>

</html>
```

2. Develop a HTML program, to embed audio and video into HTML web page

```html
<!DOCTYPE html>

<html>

<head>

  <title>Embedding Audio and Video</title>

</head>

<body>
```
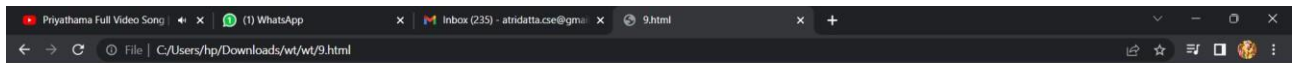
```
<h2>Embedding Audio</h2>

<audio controls>

    <source src="audio.mp3" type="audio/mpeg">

    Your browser does not support the audio element.

</audio>
```



```
<h2>Embedding Video</h2>

<video width="600" controls>

    <source src="video.mp4" type="video/mp4">

    Your browser does not support the video tag.

</video>

</body>

</html>
```


3. Develop a program to apply different types (or levels of style or style specification formats) inline, internal, external styles to HTML elements. (identify selector, property and value).

CSS

Inline CSS

```
<html>

    <head>

        <title>inline css</title>

    </head>

        <body style=background-color:pink>

            <h1 style=color:blue>AtriDatta

            <p style=font-family:algerian font-size:15>AtriDatta

        </body>

    </html>
```


AtriDatta

Internal CSS
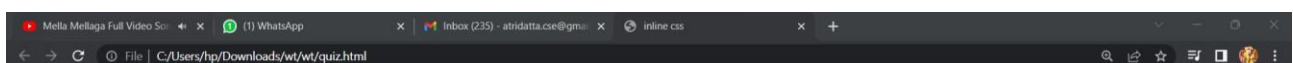
```
<html>
      <head>
            <title> Including Style Sheer </title>
                  <style type = "text/css">
                        body { background-color : powderblue;}
                        h1 { color : blue}
                        h2 { color : red}
                        h4 { color : brown}
                        h5 { color : pink}
                        h6 { color : black}
                  </style>
            </head>
      <body>
            <h1> This is a heading </h1>
            <h2> This is a paragraph </h2>
</body>
</html>
```
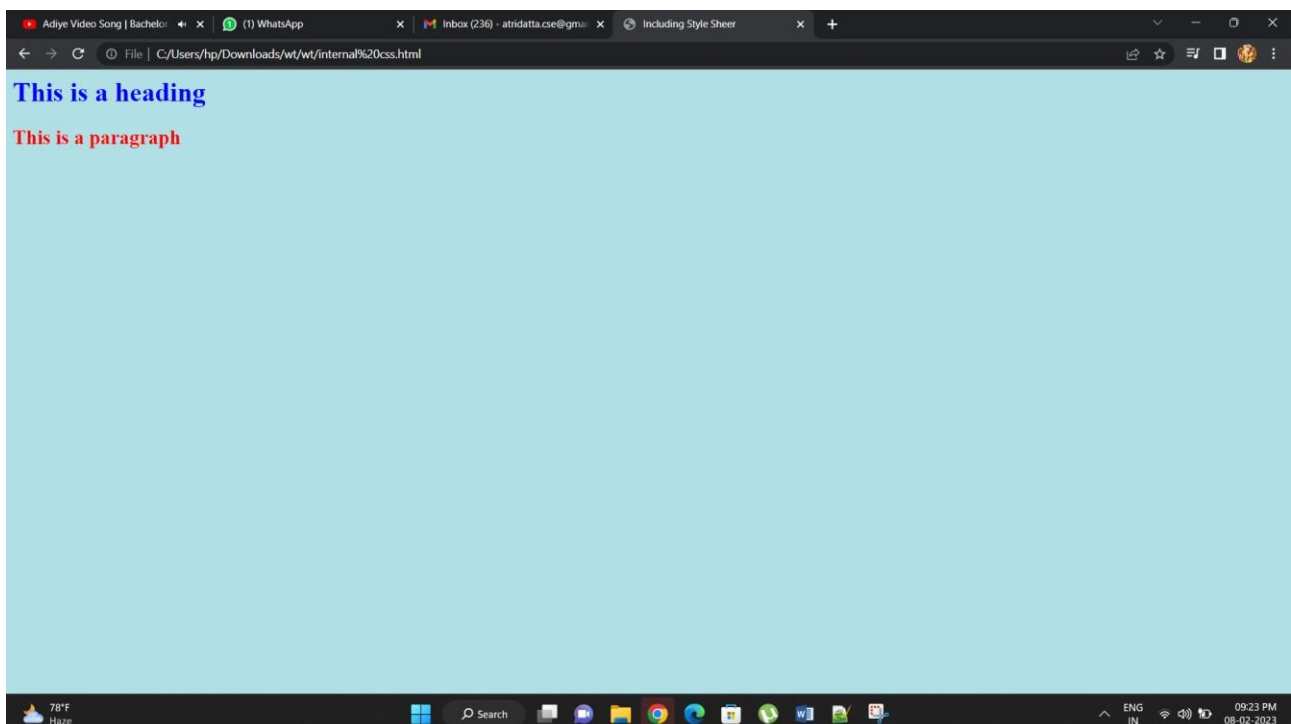
OUTPUT

External CSS

Welcome.html

```html
<html>
<head>
  <link rel="stylesheet" href="C:/Users/SNSaraswathi/Desktop/wt/style.css">
</head>
<body>
<h1> This is a heading </h1>
<h2> This is a paragraph </h2>
<P> This is a paragraph </P>
</body>
</html>
```

style.css

```css
body
{
  background-color: powderblue;
}
h1
{
  font-color: blue;
  font-family:algerian;
  font-size:20
 }
p
{
  color: red;
}
```