



HTML ASSIGNMENT

Basics of HTML

1. Create a webpage as per following instructions

File name: first.html

Title: your name

Head: This is my first page

Body content: Write 10 sentences on magnetic tape

```
<html>
  <head>
    <title>Jenil Desai</title>
  </head>
  <body>
    <center><h1>This is My First Page</h1></center>
      1. Longevity: Magnetic tape has been a reliable data storage
medium for several decades, known for its long-term data retention
capabilities.
      <br><br>
      2. Storage Capacity: Despite being surpassed by other storage
mediums in recent years, magnetic tape still boasts an impressive storage
capacity, making it suitable for long-term data archival.
      <br><br>
      3. Cost-Effectiveness: Magnetic tape remains a cost-effective
option for large-scale data storage, especially for organizations with
substantial data storage requirements.
      <br><br>
      4. Durability: It is resilient and can withstand physical wear and
tear better than some other storage options, making it suitable for long-term
storage in challenging environments.
      <br><br>
      5. Sequential Access: Magnetic tape is primarily designed for
sequential data access rather than random access, making it suitable for
applications that involve bulk data transfer and storage.
      <br><br>
      6. Use in Data Backup: Many organizations use magnetic tape for
data backup purposes due to its cost-effectiveness and capacity for storing
large volumes of data securely.
      <br><br>
      7. Compatibility: Although technological advancements have led to
the development of newer storage options, magnetic tape remains compatible
with many legacy systems, ensuring the accessibility of archived data.
      <br><br>
```

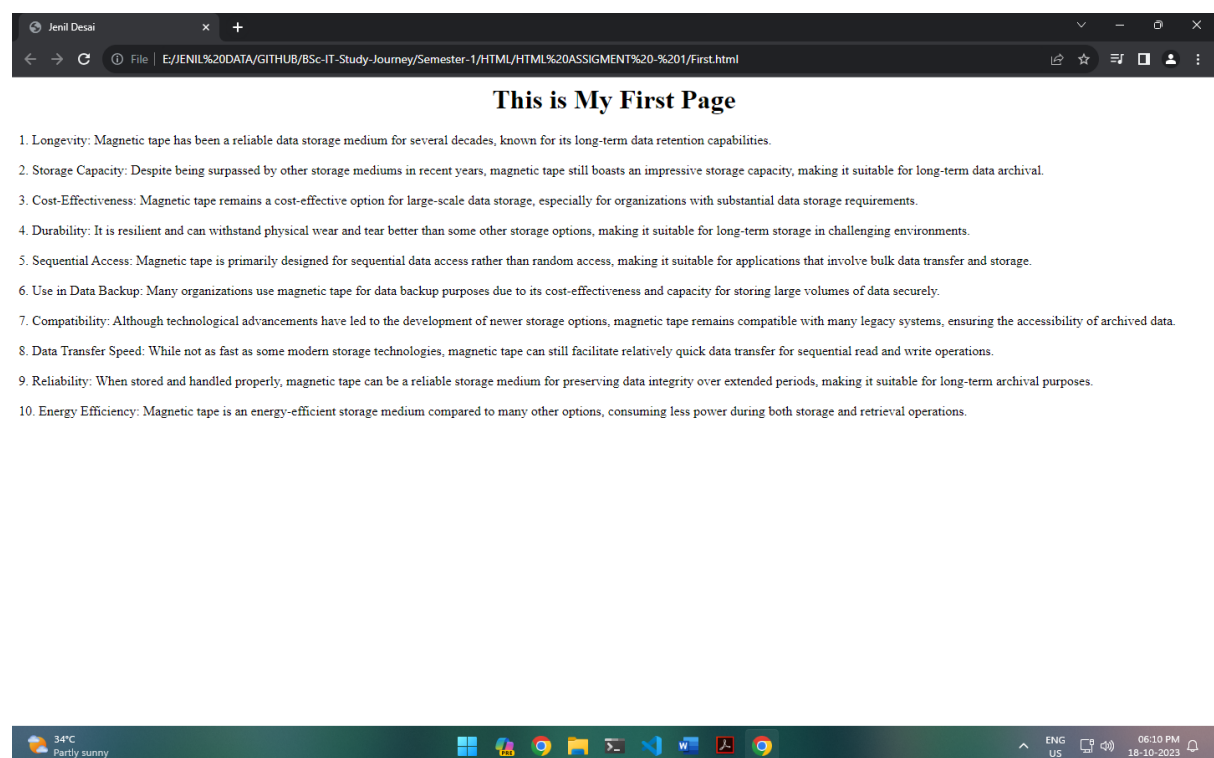
8. Data Transfer Speed: While not as fast as some modern storage technologies, magnetic tape can still facilitate relatively quick data transfer for sequential read and write operations.

9. Reliability: When stored and handled properly, magnetic tape can be a reliable storage medium for preserving data integrity over extended periods, making it suitable for long-term archival purposes.

10. Energy Efficiency: Magnetic tape is an energy-efficient storage medium compared to many other options, consuming less power during both storage and retrieval operations.

</body>

</html>



2. Create a webpage which contains details of magnetic disk with 15 sentences.

File name: para.html

Instructions:

Create paragraph after every 2 lines.

Display every sentence in new line.

Note: use <p> and
 tag.

```
<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body>
    <p>
      Magnetic tape is a medium for magnetic recording, widely used for
      storing data, music, and video. It consists of a thin, magnetizable coating on
      a long, narrow strip of plastic film. The tape is typically housed in a
      plastic cassette for easier handling.
    <br><br>
      The magnetic tape is composed of a base material, commonly made of
      polyester, and a magnetic layer typically made of iron oxide. The base film
      provides stability and strength to the tape.
    <br><br>
      The magnetic layer stores data in the form of magnetic patterns.
      These patterns are created by aligning the magnetic particles in a specific
      direction using a magnetic recording device.
    <br><br>
      Magnetic tapes are available in different widths and lengths to
      accommodate various data storage needs. The width ranges from 0.25 inches to 2
      inches, with 0.5 inches being the most common for data storage purposes.
    <br><br>
      The tape is wound on two spools within the cassette, and the
      direction of the winding can be either linear or helical, depending on the
      recording technology.
    <br><br>
      Magnetic tape technology has evolved over the years, with
      different formulations for the magnetic layer, such as metal particles or
      metal evaporated films, providing higher storage density and better signal-to-
      noise ratios.
    <br><br>
      The use of magnetic tape is prevalent in data backup and archival
      storage applications due to its high capacity, durability, and cost-
      effectiveness. It is often used for long-term storage of critical data that
      needs to be preserved for extended periods.
    <br><br>
```

Magnetic tape drives use read/write heads to access and modify data on the tape. The read/write heads operate by detecting and altering the magnetic field of the particles on the tape.

The speed at which data can be accessed from magnetic tape is generally slower compared to modern storage mediums like solid-state drives and hard disk drives. However, its advantage lies in its long-term stability and archival capabilities.

Despite being slower, magnetic tape has a high throughput and can transfer large amounts of data quickly. It remains a preferred option for large-scale data backup and long-term data retention in various industries.

Advancements in magnetic tape technology have led to the development of Linear Tape-Open (LTO) technology, which offers high storage capacity and faster data transfer rates, making it suitable for modern data-intensive applications.

Magnetic tape is susceptible to damage from environmental factors such as temperature, humidity, and dust. Proper storage conditions are necessary to ensure the longevity of the data stored on the tape.

Regular maintenance of the tape drives and careful handling of the tape cartridges are essential to prevent data loss and ensure the reliability of the stored information.

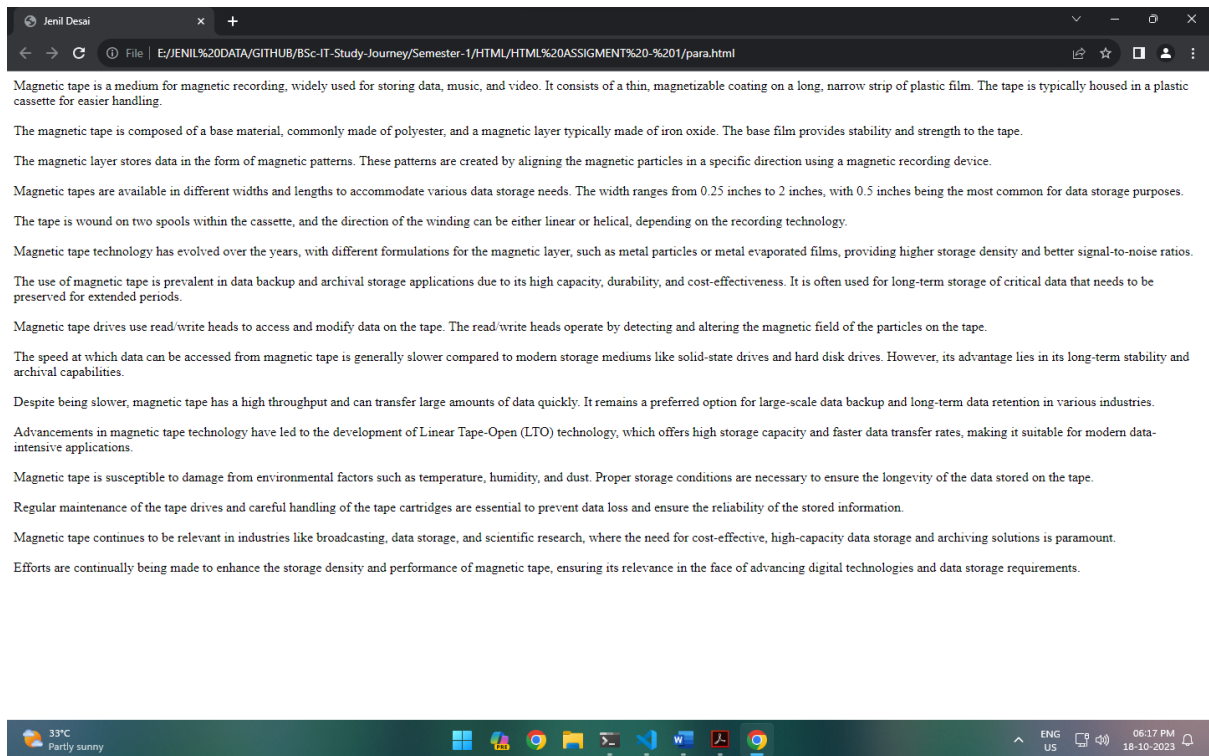
Magnetic tape continues to be relevant in industries like broadcasting, data storage, and scientific research, where the need for cost-effective, high-capacity data storage and archiving solutions is paramount.

Efforts are continually being made to enhance the storage density and performance of magnetic tape, ensuring its relevance in the face of advancing digital technologies and data storage requirements.

</p>

</body>

</html>



3. Create a table

File name: table.html

Roll No.	Name	Marks

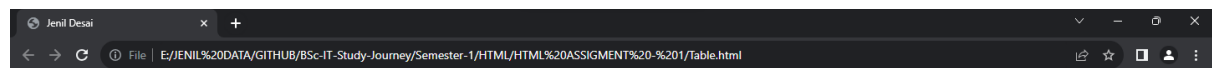
Display column titles in bold fonts.

Enter details of minimum 5 students.

Provide border.

```
<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body>
    <center><h1>Student Details</h1></center>
    <table border="3" cellpadding="5" align="center">
      <tr>
        <th>Roll No.</th>
        <th>Name</th>
        <th>Marks</th>
      </tr>
      <tr>
```

```
        <td>01</td>
        <td>Pushpa</td>
        <td>29</td>
    </tr>
    <tr>
        <td>02</td>
        <td>Sriveli</td>
        <td>30</td>
    </tr>
    <tr>
        <td>03</td>
        <td>Konda Raddy</td>
        <td>29</td>
    </tr>
    <tr>
        <td>04</td>
        <td>Jolly Readdy</td>
        <td>21</td>
    </tr>
    <tr>
        <td>05</td>
        <td>Bhaver Singh</td>
        <td>26</td>
    </tr>
</table>
</body>
</html>
```



Student Details

Roll No.	Name	Marks
01	Pushpa	29
02	Sriveli	30
03	Konda Raddy	29
04	Jolly Readdy	21
05	Bhaver Singh	26

4. Create a table

File name: table_effect.html

Employee Num	Employee Name	Department	Designation

Display column titles in bold fonts.

Enter details of minimum 5 employees.

Keep background color of your choice.

Height and width of the table should be 60 and 40 respectively

Provide a green color border to table with thickness of minimum 5 points.

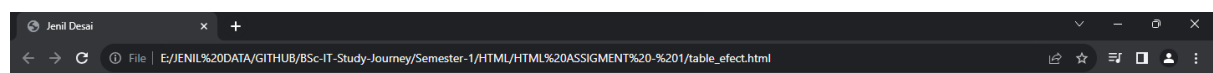
```
<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body>
    <h1>Employee Details</h1>
    <table border="5" bordercolor="Green" height="60" width="40" bgcolor=
#e6e6e6 cellpadding="10">
      <tr>
        <th>Employee Num</th>
        <th>Employee Name</th>
        <th>Department</th>
        <th>Designation</th>
      </tr>
      <tr>
        <td>12345</td>
        <td>Sarah Johnson</td>
        <td>Human Resource</td>
        <td>HR Director</td>
      </tr>
      <tr>
        <td>23456</td>
        <td>Michael Smith</td>
        <td>Finance and Accounting</td>
        <td>Financial Controller</td>
      </tr>
      <tr>
        <td>34567</td>
        <td>Emily Williams</td>
        <td>Sales and Marketing</td>
        <td>Marketing Manager</td>
      </tr>
      <tr>
        <td>45678</td>
```



```

        <td>John Davis</td>
        <td>Research and Development</td>
        <td>Product Development Manager</td>
    </tr>
    <tr>
        <td>56789</td>
        <td>Jessica Brown</td>
        <td>Quality Assurance</td>
        <td>Compliance Officer</td>
    </tr>
</table>
</body>
</html>

```



Employee Num	Employee Name	Department	Designation
12345	Sarah Johnson	Human Resource	HR Director
23456	Michael Smith	Finance and Accounting	Financial Controller
34567	Emily Williams	Sales and Marketing	Marketing Manager
45678	John Davis	Research and Development	Product Development Manager
56789	Jessica Brown	Quality Assurance	Compliance Officer



5. Create a table

File name: table_cell.html

Book num	Book Name	Author Name	Price

Display column titles in bold fonts

Enter details of minimum 5 books.

Display the table in the center of the screen.

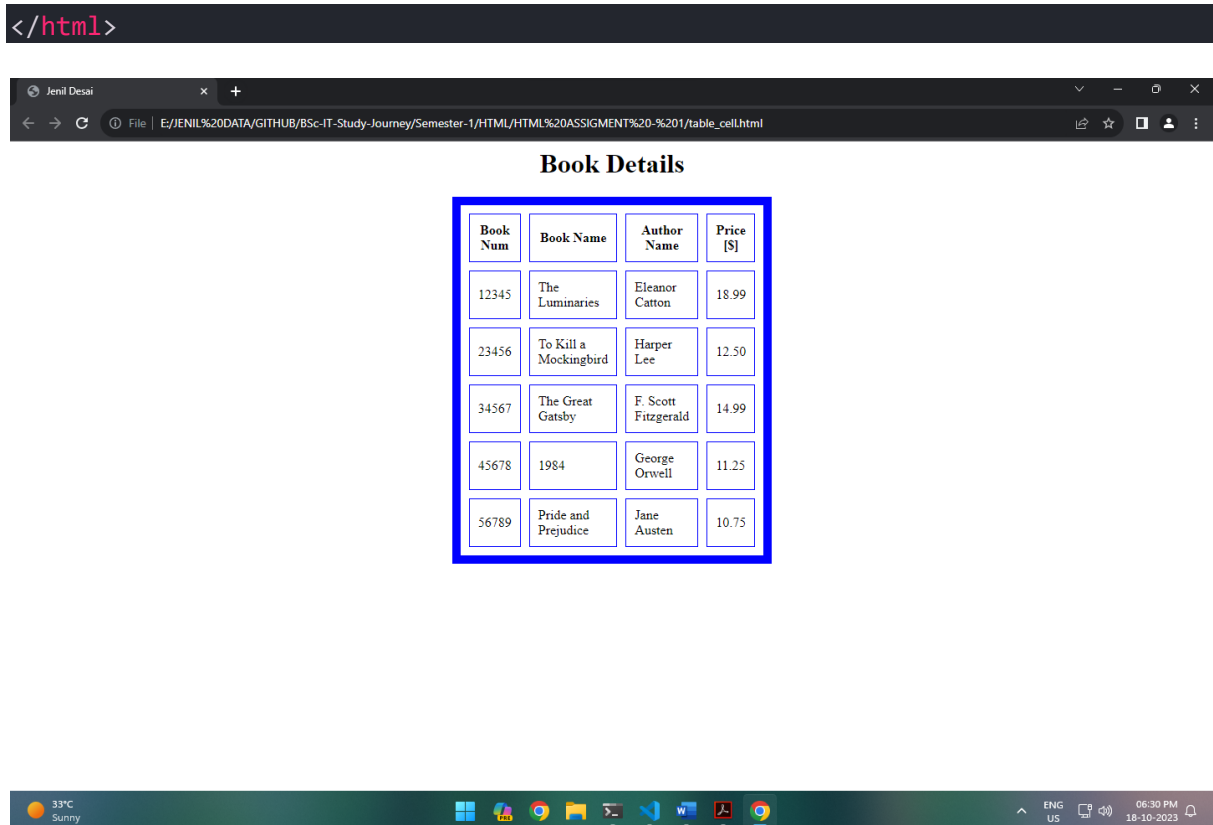
Height and width of the table should be 50 and 50 respectively

Provide a blue color border to table with thickness of minimum 10 points.

Provide 10 points space between cells.

Provide gap of 15 points between content and cell border.

```
<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body>
    <center><h1>Book Details</h1></center>
    <table border="10" bordercolor="Blue" height="50" width="50"
cellspacing="10" cellpadding="10" align="center">
      <tr>
        <th>Book Num</th>
        <th>Book Name</th>
        <th>Author Name</th>
        <th>Price [$]</th>
      </tr>
      <tr>
        <td>12345</td>
        <td>The Luminaries</td>
        <td>Eleanor Catton</td>
        <td>18.99</td>
      </tr>
      <tr>
        <td>23456</td>
        <td>To Kill a Mockingbird</td>
        <td>Harper Lee</td>
        <td>12.50</td>
      </tr>
      <tr>
        <td>34567</td>
        <td>The Great Gatsby</td>
        <td>F. Scott Fitzgerald</td>
        <td>14.99</td>
      </tr>
      <tr>
        <td>45678</td>
        <td>1984</td>
        <td>George Orwell</td>
        <td>11.25</td>
      </tr>
      <tr>
        <td>56789</td>
        <td>Pride and Prejudice</td>
        <td>Jane Austen</td>
        <td>10.75</td>
      </tr>
    </table>
  </body>
```



6. Open para.html file

Save it as formatting.html

Make first word of every paragraph bold.

Make second word of every paragraph italic.

Highlight any one word in every paragraph.

Give effect of cancelled text (strike out) to last word of every paragraph.

Add new paragraph content as follows:

This file shows all the tags for formatting in html providing various effect such as bold, italic, underline, strike thorough, highlighted text and many more. This effects can be provided using various formatting tags available in html. There are special tags for superscript and subscript also.

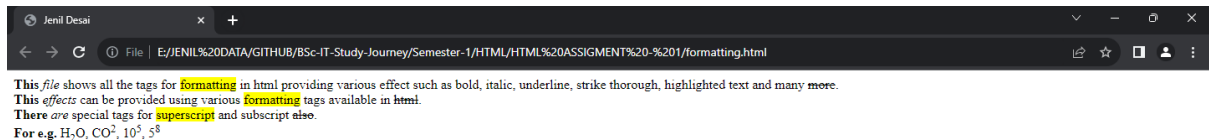
For e.g. H₂O, CO₂, 10⁵, 5⁸

```
<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body>
    <p>
      <b>This</b> <i>file</i> shows all the tags for
      <mark>formatting</mark> in html providing various effect such as bold, italic,
      underline, strike thorough, highlighted text and many <del>more</del>.
    </p>
  </body>
</html>
```

```

        <br><b>This</b> <i>effects</i> can be provided using various
<mark>formatting</mark> tags available in <del>html</del>.
        <br><b>There</b> <i>are</i> special tags for
<mark>superscript</mark> and subscript <del>also</del>.
        <br><b>For e.g.</b> H<sub>2</sub>O, CO<sup>2</sup>,
10<sup>5</sup>, 5<sup>8</sup>
    </p>
</body>
</html>

```



7. Create a table as follows:

File name: table_merge.html

Nutrition Details			
Product	Calories	Fat	Vitamin
Soup	55	20	Vitamins A

Display column titles in bold fonts

Enter details of minimum 5 products as per given example of Soup.

Display the table on the right of the screen.

Provide a yellow color border to table with thickness of minimum 7 points.

```

<html>
  <head>
    <title>
      Jenil Desai
    </title>
  </head>
  <body bgcolor="Grey">

```

```
<table border="7" bordercolor="yellow">
  <tr>
    <th>Product</th>
    <th>Calories</th>
    <th>Fat [g]</th>
    <th>Vitamin</th>
  </tr>
  <tr>
    <td>Soup</td>
    <td>55</td>
    <td>0.2</td>
    <td>Vitamin A</td>
  </tr>
  <tr>
    <td>Banana</td>
    <td>105</td>
    <td>0.4</td>
    <td>Vitamin C</td>
  </tr>
  <tr>
    <td>Spinach</td>
    <td>23</td>
    <td>0.4</td>
    <td>Vitamin K</td>
  </tr>
  <tr>
    <td>Salmon</td>
    <td>233</td>
    <td>13</td>
    <td>Vitamin B12</td>
  </tr>
  <tr>
    <td>Almonds</td>
    <td>161</td>
    <td>14</td>
    <td>Vitamin E</td>
  </tr>
</table>
</body>
</html>
```

Jenil Desai

File | E:/JENIL%20DATA/GITHUB/BSc-IT-Study-Journey/Semester-1/HTML/HTML%20ASSIGNMENT%20-%201/table_merge.html

Product	Calories	Fat [g]	Vitamin
Soup	55	0.2	Vitamin A
Banana	105	0.4	Vitamin C
Spinach	23	0.4	Vitamin K
Salmon	233	13	Vitamin B12
Almonds	161	14	Vitamin E

33°C

Sunny

ENG

US

06:35 PM

18-10-2023