

FULL STACK TECHNOLOGIES-1

Experiment:1- Lists, Links and Images:

a)HTML List:

HTML lists allow web developers to group a set of related items in lists.

1.Unordered HTML List:

An unordered list starts with the `` tag. Each list item starts with the `` tag.

The list items will be marked with bullets (small black circles) by default:

Example

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

2.Ordered HTML List

An ordered list starts with the `` tag. Each list item starts with the `` tag.

The list items will be marked with numbers by default:

Example

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

3.HTML Description Lists

HTML also supports description lists.

A description list is a list of terms, with a description of each term.

The `<dl>` tag defines the description list, the `<dt>` tag defines the term (name), and the `<dd>` tag describes each term:

Example

```
<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>
```

PROGRAM

1A. Write a HTML program, to explain the working of lists.

(Note: It should have an ordered list, unordered list, nested lists and ordered list in an unordered list and definition lists.)

SOURCE CODE:

```
<!--write a html program to explain working of lists like ordered,unordered,nested,defination list-->
```

```
<!doctype html>
```

```
<html>
```

```
<head></head>
```

```
<title>MY COLLEGE OF ENGINEERING & TECHNOLOGY</title>
```

```
<body style="background-color:#cfb46a;">
```

```
<!--HEADING ELEMENT-->
```

```
<h1>
```

ALL ABOUT THE COLLEGE

```
</h1>
```

```
<!--PARAGRAPH ELEMENT-->
```

```
<p align="justify">
```

St. Ann's College of Engineering & Technology was established in the year 2001 at Vetapalem Mandal, Chirala, Bapatla District, Andhra Pradesh by The St. Mary Educational Society, pioneered by Educationalists, Industrialists and Philanthropists. The College is housed amidst lush green fields, in serene environment, free from pollution and conducive for the pursuit of education. Bay of Bengal is just two km away from the college.

```
</p>
```

```
<p align="justify">
```

The Institution is Approved by All India Council for Technical Education (AICTE), New Delhi and is Permanently Affiliated to the Jawaharlal Nehru Technological University, Kakinada. Five Programmes were Accredited by National Board of Accreditation (NBA). The Institution is Accredited by NAAC with 'A' Grade. The Institution is recognized by UGC under section 2(f) and 12(B). The Institution is awarded 'A' grade by Andhra Pradesh State Government. Institution is Permanently Accredited by Institution of Engineers (I). Institution is selected for Andhra Pradesh State Technical Skill Development Center (Siemens). The College has a glory of experience in teaching from 2001 onwards. The College is situated along the Bypass Road at 6 KMs distance Chirala town in Chirala-Ongole stretch. The College campus has a sprawling area of around 19.28 1/4 acres, with serene atmosphere, sylvan settings and environs, conducive for academic activities. The college is well connected by rail and road links because of its ideal location.

```
</p>
```

```
<h4 style="font-family:monospace;font-size:24px;">COURSES OFFERED</h4>
```

```
<!--unordered list-->
```

```
<ul>
```

```
<li>B.TECH COMPUTER SCIENCE AND ENGINEERING</li>
```

```
<!--nested list-->
```

```
<!--ordered list-->
```

```
<ol>
```

```
<li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH AIML</li>
```

```
<li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH CS</li>
```

```
<li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH DS</li>
```

```
<li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH IOT</li>
```

```
</ol>
```

```
<li style="padding:5px;">B.TECH ELECTRONICS COMMUNICATION ENGINEERING</li>
```

```
<li style="padding:5px;">B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING</li>
```

```
<li style="padding:5px;">B.TECH CIVIL ENGINEERING</li>
```

```
<li>B.TECH MECHANICAL ENGINEERING</li>
```

```
</ul>
```

OUTPUT:

D:/academics/FST%20Programs/lab%20programs/csec/exercise1a.html

GmailYouTubeMapsNew Tab

ALL ABOUT THE COLLEGE

St. Ann's College of Engineering & Technology was established in the year 2001 at Vetapalem Mandal, Chirala, Bapatla District, Andhra Pradesh by The St. Mary Educational Society, pioneered by Educationalists, Industrialists and Philanthropists. The College is housed amidst lush green fields, in serene environment, free from pollution and conducive for the pursuit of education. Bay of Bengal is just two km away from the college.

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COURSES OFFERED

- B.TECH COMPUTER SCIENCE AND ENGINEERING
 - B.TECH COMPUTER SCIENCE AND ENGINEERING WITH AIML
 - B.TECH COMPUTER SCIENCE AND ENGINEERING WITH CS
 - B.TECH COMPUTER SCIENCE AND ENGINEERING WITH DS
 - B.TECH COMPUTER SCIENCE AND ENGINEERING WITH IOT
- B.TECH ELECTRONICS COMMUNICATION ENGINEERING
- B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING
- B.TECH CIVIL ENGINEERING
- B.TECH MECHANICAL ENGINEERING

Address

chellareddy pallem,
vetapalem,
chirala,
bapatla district,
Andhrapradesh-523157.

Activate Windows
Go to Settings to activate Windows.

b)HTML Links:

This section introduces the *link* (or hyperlink, or Web link), the basic hypertext construct. A link is a connection from one Web resource to another.

- HTML links are hyperlinks.
- You can click on a link and jump to another document.
- When you move the mouse over a link, the mouse arrow will turn into a little hand.
- A *link* has two ends -- called *anchors* -- and a direction. The link starts at the "source" anchor and points to the "destination" anchor, which may be any Web resource (e.g., an image, a video clip, a sound bite, a program, an HTML document, an element within an HTML document, etc.).

Example:

```
<a href="url">content</a>
```

- the [href](#) attribute in each source anchor specifies the address of the destination anchor with a URI.
- links and anchors created by the [LINK](#) and [A](#) elements.
- The [LINK](#) element may only appear in the head of a document.
- The [A](#) element may only appear in the body.

```
<LINK rel="prev" href="chapter4.html">
```

```
<A href="#section2">Some background</A>
```

HTML Links - The target Attribute

By default, the linked page will be displayed in the current browser window. To change this, you must specify another target for the link.

The **target** attribute specifies where to open the linked document.

The **target** attribute can have one of the following values:

- **_self** - Default. Opens the document in the same window/tab as it was clicked
- **_blank** - Opens the document in a new window or tab
- **_parent** - Opens the document in the parent frame
- **_top** - Opens the document in the full body of the window

Absolute URLs vs. Relative URLs

Both examples above are using an **absolute URL** (a full web address) in the **href** attribute.

A local link (a link to a page within the same website) is specified with a **relative URL** (without the "https://www" part):

Ex: `<h2>Absolute URLs</h2>`

```
<p><a href="https://www.w3.org/">W3C</a></p>
```

```
<h2>Relative URLs</h2>
```

```
<p><a href="html_images.asp">HTML Images</a></p>
```

HTML Links - Use an Image as a Link

To use an image as a link, just put the `` tag inside the `<a>` tag:

Example:

```
<a href="default.asp">
```

```

```

```
</a>
```

Link to an Email Address:

Use **mailto:** inside the **href** attribute to create a link that opens the user's email program (to let them send a new email):

Example

```
<a href="mailto:someone@example.com">Send email</a>
```

Button as a Link:

To use an HTML button as a link, you have to add some JavaScript code.

JavaScript allows you to specify what happens at certain events, such as a click of a button:

Example

```
<button onclick="document.location='default.asp'">HTML Tutorial</button>
```

- Use the `<a>` element to define a link
- Use the `href` attribute to define the link address
- Use the `target` attribute to define where to open the linked document
- Use the `` element (inside `<a>`) to use an image as a link
- Use the `mailto:` scheme inside the `href` attribute to create a link that opens the user's email program

Program:

1b. Write a HTML program, to explain the working of hyperlinks using tag and href, target Attributes.

Source code:

```
<!--Write a HTML program, to explain the working of hyperlinks using <a> tag and href, target Attributes-->
<!doctype html>
<html>
  <head></head>
  <title>MY COLLEGE OF ENGINEERING</title>
  <body style="background-color:#cfb46a;">
    <!--HEADING ELEMENT-->
    <h1>
      ALL ABOUT THE COLLEGE
    </h1>
    <!--PARAGRAPH ELEMENT-->
    <p align="justify">
      St. Ann's College of Engineering & Technology was established in the year 2001 at Vetapalem
      Mandal, Chirala, Bapatla District, Andhra Pradesh by The St. Mary Educational Society, pioneered by
      Educationalists, Industrialists and Philanthropists. The College is housed amidst lush green fields, in
      serene environment, free from pollution and conducive for the pursuit of education. Bay of Bengal is just
      two km away from the college.
    </p>
    <p align="justify">
      The Institution is Approved by All India Council for Technical Education (AICTE), New Delhi and
      is Permanently Affiliated to the Jawaharlal Nehru Technological University, Kakinada.Five Programmes were
      Accredited by National Board of Accreditation(NBA).The Institution is Accredited by NAAC with 'A' Grade.The
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      selected for Andhra Pradesh State Technical Skill Development Center(Siemens).The College has a glory of
      experience in teaching from 2001 onwards. The College is situated along the Bypass Road at 6 KMs distance
      Chirala town in Chirala-Ongole stretch. The College campus has a sprawling area of around 19.28 1/4 acres,
      with serene atmosphere, sylvan settings and environs, conducive for academic activities. The college is well
      connected by rail and road links because of its ideal location.
    </p>
    <h4 style="font-family:monospace;font-size:24px;">COURSES OFFERED</h4>
    <!--unordered list-->
    <ul>
      <!--anchor tag with href and target attribute-->
      <li>
        <a href="exercise1d.html" target="_blank">B.TECH COMPUTER SCIENCE AND ENGINEERING</a>
      </li>
      <!--nested list-->
      <!--ordered list-->
      <ol>
        <li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH AIML</li>
        <li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH CS</li>
      </ol>
    </ul>
  </body>
</html>
```

```

        <li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH DS</li>
        <li style="padding:5px;">B.TECH COMPUTER SCIENCE AND ENGINEERING WITH IOT</li>
    </ol>
    <li style="padding:5px;">B.TECH ELECTRONICS COMMUNICATION ENGINEERING</li>
    <li style="padding:5px;">B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING</li>
    <li style="padding:5px;">B.TECH CIVIL ENGINEERING</li>
    <li>B.TECH MECHANICAL ENGINEERING</li>
</ul>

<!--heading-->
<h4>Address</h4>
<!--unordered list-->
<ul style="list-style:none;">
    <li>chellareddy pallem,</li>
    <li>vetapalem,</li>
    <li>chirala,</li>
    <li>bapatla district,</li>
    <li>Andhrapradesh-523157.</li>
</ul>
</html>

```

Output:

St. Ann's College of Engineering & Technology was established in the year 2001 at Vetapalem Mandal, Chirala, Bapatla District, Andhra Pradesh by The St. Mary Educational Society, pioneered by Educationalists, Industrialists and Philanthropists. The College is housed amidst lush green fields, in serene environment, free from pollution and conducive for the pursuit of education. Bay of Bengal is just two km away from the college.

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Address

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Activate Windows
Go to Settings to activate Windows.

c) HTML Images Syntax

The HTML `` tag is used to embed an image in a web page.

Images are not technically inserted into a web page; images are linked to web pages. The `` tag creates a holding space for the referenced image.

The `` tag is empty, it contains attributes only, and does not have a closing tag.

The `` tag has two required attributes:

- `src` - Specifies the path to the image
- `alt` - Specifies an alternate text for the image

Syntax

```

```

The src Attribute

The required `src` attribute specifies the path (URL) to the image.

Example

```

```

The alt Attribute

The required `alt` attribute provides an alternate text for an image, if the user for some reason cannot view it (because of slow connection, an error in the `src` attribute, or if the user uses a screen reader).

The value of the `alt` attribute should describe the image:

Example

```

```

image Size - Width and Height

You can use the `style` attribute to specify the width and height of an image.

Example

```

```

Or

```

```

1c) Create a HTML document that has your image and your friend's image with a specific height and width. Also when clicked on the images it should navigate to their respective profiles.

Source code:

<!--Create a HTML document that has your image and your friend's image with a specific height and width. Also when clicked on the images it should navigate to their respective profiles-->

<!doctype html>

<html>

<head></head>

<title>MY COLLEGE OF ENGINEERING</title>

<body style="background-color:#af8a24;text-align: center;">

<h1 style="color:white">

ABOUT THE PRINCIPAL AND HOD

</h1>

<p align="justify">

Dr.K.JAGADEESH BABU has received PhD in 2013 and M.Tech. in 2006 from JNTUH, Hyderabad in the department of ECE. He is a post-doctoral researcher from IIT Kharagpur. He published more than 80 research papers in reputed SCI and Scopus Indexed journals. He executed various research projects worth more than 40 lakhs from various funding agencies like AICTE, New Delhi, DSR, Saudi Arabia etc. He received travel grant from DST to participate in PIERS International conference in Singapore. He received Best Teacher Award in 2012 and Best Researcher Award in 2018 from JNTUK, Kakinada. He is a senior member of IEEE.

</p>

<p align="justify">

Dr.P.HARINI has received Ph.D in Computer Science and Engineering in 2011 from JNTUA Ananthapur, Andhra Pradesh. She is working as Professor and Head in CSE. she has a total of 27 years of experience in Teaching and Administration. She is ratified by JNTUK, Kakinada. she recieved BEST TEACHER AWARD FOR THE YEAR 2012 FROM JNTUK

</p>

</body>



</html>

Output:

← → ↻ ① File D:/academics/FST%20Programs/lab%20programs/csec/exercise1c.html ☆ 📁 👤 ⋮

📁 | 📧 Gmail | 📺 YouTube | 🗺️ Maps | 🌐 New Tab

ABOUT THE PRINCIPAL AND HOD



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📁 | 📧 Gmail | 📺 YouTube | 🗺️ Maps | 🌐 New Tab

(AN AUTONOMOUS INSTITUTION) NATIONAL ACCREDITATION COUNCIL Awarded A Grade by A.P. State Govt


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UG PG

DR. K.JAGADEESH BABU

Principal

PhD, (Post doc-IIT KGP), SMIEEE



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Activate Windows
Go to Settings to activate Windows.



ABOUT HEAD OF THE DEPARTMENT



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[KNOW MORE](#)

Activate Windows
Go to Settings to activate Windows.

d)Thumbnail Image

- A thumbnail is a small image that represents a larger image (when clicked on), and is often recognized with a border around it:
- Use an element and wrap an <a> element around it. Style the image with a border and add a hover effect:

Example:

```
<a target="_blank" href="img_forest.jpg">  
    
</a>
```

1d. Write a HTML program, in such a way that, rather than placing large images on a page, the preferred technique is to use thumbnails by setting the height and width parameters to something like to 100*100 pixels. Each thumbnail image is also a link to a full sized version of the image. Create an image gallery using this technique.

Source code:

<!--Create a HTML document that has your image and your friend's image with a specific height and width. Also when clicked on the images it should navigate to their respective profiles-->

```
<!doctype html>  
<html>  
  <head>  
    <style>  
      img.deptdetails{  
        border:2px solid white;  
        width:300px;  
        height:180px;  
        margin:15px;  
      }  
      img.facultydetails{  
        width: 100px;  
        height:100px;  
        margin:15px;  
        border: 2px solid white;  
      }  
    </style>  
  </head>  
  <title>MY COLLEGE OF ENGINEERING</title>  
  
  <body style="background-image: url('bg1.jpg');text-align: center;background-size: cover;">  
  
    <h1 style="color:white;background-color: #cfb46a;" >  
      ABOUT THE PRINCIPAL AND HOD  
    </h1>  
  
    <a href="https://sacet.ac.in/about-principal/" target="_blank">  
        
    </a>  
  
    <a href="https://sacet.ac.in/wp-content/uploads/2023/07/HOD-profile-1.pdf" target="_blank">  
        
    </a>
```

<p align="justify">

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</p>

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</p>

<h1>Faculty Gallery</h1>

<p>click on the thumbnails below to make image larger</p>

Dr.P.Harini,HOD

Mr.T.Seshasai,M.Tech(Ph.D)

Dr.D.NageshBabu,M.tech.Ph.D

Mr.K.Ramesh,M.tech

K.KiranKumar,M.tech


```

</a>
<b>Dr.P.V.S.Sarma,M.tech,Ph.D</b>

<a target="_blank" href="atp.png">
  
</a>
<B>Dr.A.Thirapataiha,M.tech,Ph.D</B>

<a target="_blank" href="ratnaraj.PNG">
  
</a>
<B>Dr.M.Ratnaraju,M.tech,Ph.D</B>

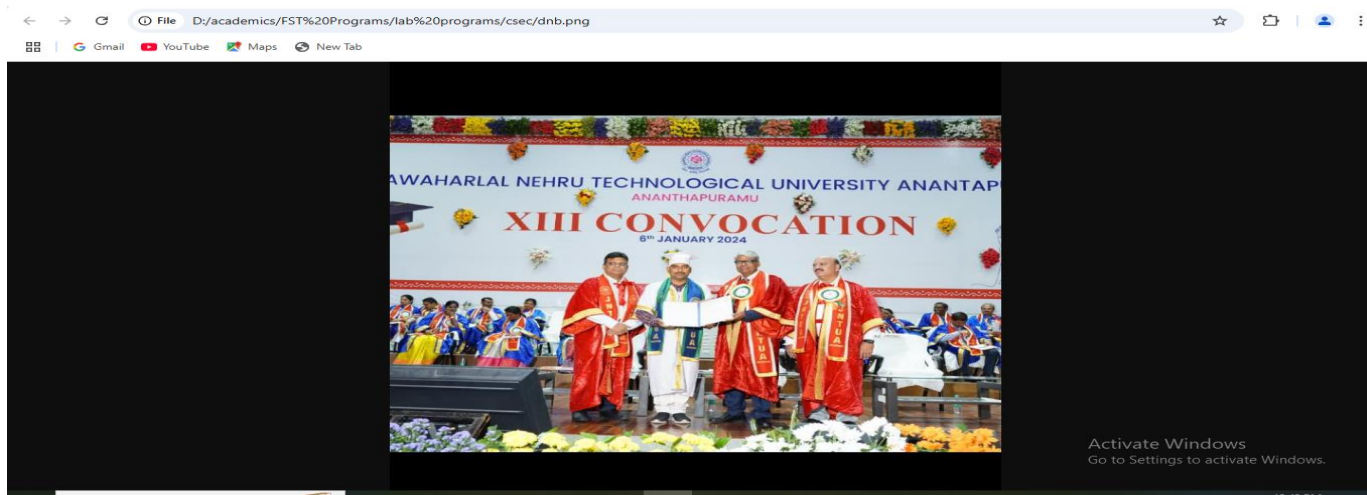
<a target="_blank" href="ratnaraj.PNG">
  
</a>
<B>Dr.M.Ratnaraju,M.tech,Ph.D</B>

</body>
</html>

```

Output:





Experiment 2: