

GDC MEMORIAL COLLEGE

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Lab Manual

IWD (B.Sc.(cs) 3rd year)

Department of Computer Science

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Program 1: An Introduction to HTML

Introduction to HTML

HTML or HyperText Markup Language is the standard markup language used to create web pages. HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like `<html>`). HTML tags most commonly come in pairs like `<h1>` and `</h1>`, although some tags represent empty elements and so are unpaired, for example ``. The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags).

The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page. HTML describes the structure of a website semantically along with cues for presentation, making it a markup language rather than a programming language.

HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

HTML markup consists of several key components, including tags (and their attributes), character-based data types, character references and entity references. Another important component is the document type declaration, which triggers standards mode rendering.

The following is an example of the classic Hello world program, a common test employed for comparing programming languages, scripting languages and markup languages. This example is made using 9 lines of code:

```
<!DOCTYPE html>
<html>
  <head>
    <title>This is a title</title>
  </head>
  <body>
    <p>Hello world!</p>
  </body>
</html>
```

(The text between `<html>` and `</html>` describes the web page, and the text between `<body>` and `</body>` is the visible page content. The markup text '`<title>This is a title</title>`' defines the browser page title.)

This Document Type Declaration is for HTML5. If the `<!DOCTYPE html>` declaration is not included, various browsers will revert to "quirks mode" for rendering.

Elements:

HTML documents imply a structure of nested HTML elements. These are indicated in the document by HTML tags, enclosed in angle brackets thus: `<p>`

In the simple, general case, the extent of an element is indicated by a pair of tags: a 'start tag' `<p>` and 'end tag' `</p>`. The text content of the element, if any, is placed between these tags.

Tags may also enclose further tag markup between the start and end, including a mixture of tags and text. This indicates further, nested, elements, as children of the parent element.

The start tag may also include attributes within the tag. These indicate other information, such as identifiers for sections within the document, identifiers used to bind style information to the presentation of the document, and for some tags such as the `` used to embed images, the reference to the image resource.

Some elements, such as the line break `
`, do not permit any embedded content, either text or further tags. These require only a single empty tag (akin to a start tag) and do not use an end tag.

Header of the HTML document: `<head>...</head>`. The title is included in the head, for example:

```
<head>
  <title>The Title</title>
</head>
```

Headings: HTML headings are defined with the `<h1>` to `<h6>` tags:

```
<h1>Heading level 1</h1>
<h2>Heading level 2</h2>
<h3>Heading level 3</h3>
<h4>Heading level 4</h4>
<h5>Heading level 5</h5>
<h6>Heading level 6</h6>
```

Paragraphs:

```
<p>Paragraph 1</p> <p>Paragraph 2</p>
```

Line breaks : `
`. The difference between `
` and `<p>` is that 'br' breaks a line without altering the semantic structure of the page, whereas 'p' sections the page into paragraphs. Note also that 'br' is an empty element in that, while it may have attributes, it can take no content and it may not have an end tag.

<p>This
 is a paragraph
 with
 line breaks</p>

This is a link in HTML. To make a link you use the <a> tag. The href= attribute holds the URL address of the link.

A Link to Google!



Program2: To design a simple program in Html.

```
<html>
```

```
<body bgcolor="red">
```

```
<b> Hello</b><br>
```

```
<s><ul>Hello</ul></s><br>
```

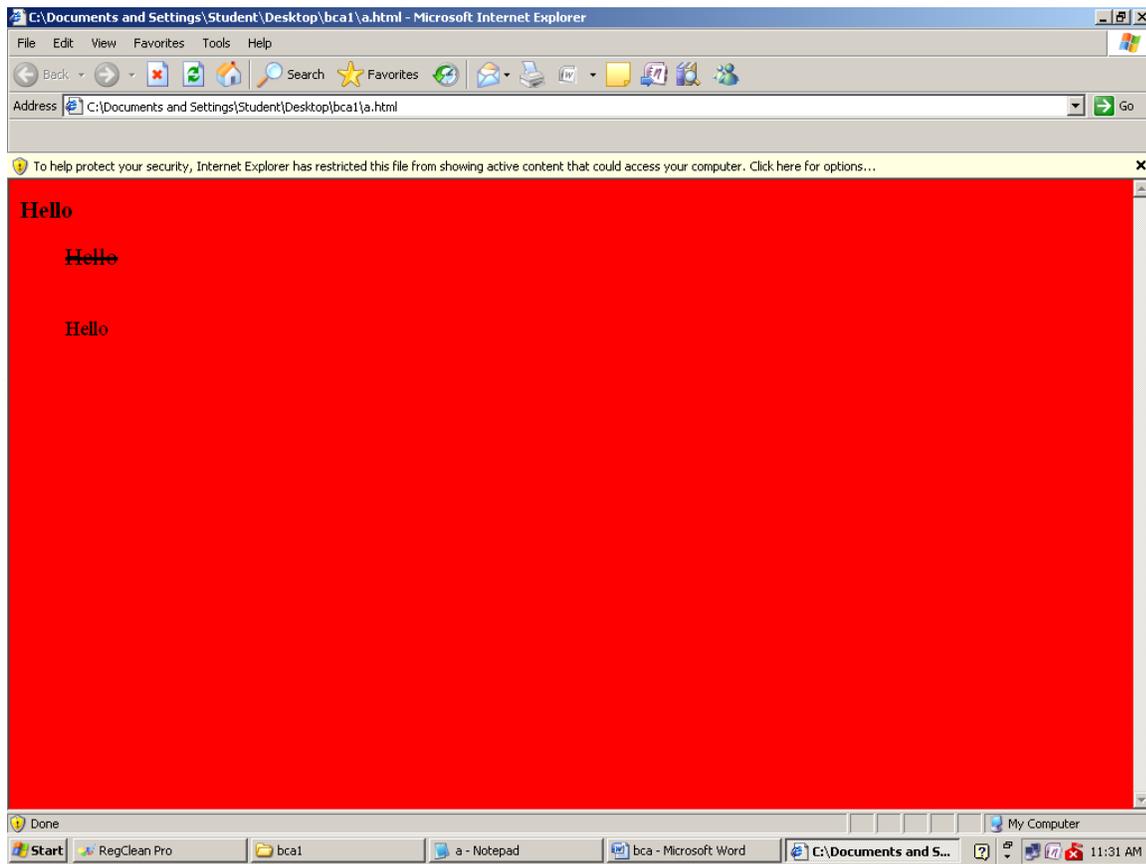
```
<small><o>Hello</o></small><br>
```

```
</body>
```

```
</html>
```



Output:-



Program3: To design an HTML page containing text and picture.

`<html>`

```
<head>
<title>first program</title>
</head>
<body bgcolor="orange", border="2">
<h2><center><u>Welcome All</u></center></h2>
<p align="centre">Multimedia applications and system are getting more and more involved in
our lives. Multimedia is useful in almost every field of day to day life.
</p>
<br>
<p>It is being extensively used at <tt>all</tt> levels to <strike>enhance</strike> efficiency and
effectiveness .</p>
<center><center>abcd</center></img>
<a href="a.html">click on the link</a>
</body>
</html>
```

Output:-



Program 4: To design an HTML page to insert a table.

<html>

```
<head>
```

```
<title>Table Program</title>
```

```
</head>
```

```
<body bgcolor="purple">
```

```
<center><table width=300 border=3></center>
```

```
<th><font color="white">Students Table</font></th>
```

```
<tr>
```

```
<td><font color="white"><b>Name</b></font></td>
```

```
<td><font color="white"><b>Roll no</b></font></td>
```

```
<td><font color="white"><b>Class</b></font></td>
```

```
<td><font color="white"><b>Sem</b></font></td>
```

```
</tr>
```

```
<tr>
```

```
<td><font color="white">Amit</font></td>
```

```
<td><font color="white">121102</font></td>
```

```
<td><font color="white">BSC</font></td>
```

```
<td><font color="white">6th</font></td></tr>
```

```
<tr>
```

```
<td><font color="white">Deepak</font></td>
```

```
<td><font color="white">121106</font></td>
```

```
<td><font color="white">BSC</font></td>
```

```
<td><font color="white">6th</font></td>
```

```
</tr>
```

```
<tr>
<td><font color="white">Naresh</font></td>
<td><font color="white">121114</font></td>
<td><font color="white">BSC</font></td>
<td><font color="white">6th</font></td>
```

```
</tr>
```

```
<tr>
<td><font color="white">Susmita</font></td>
<td><font color="white">121134</font></td>
<td><font color="white">BSC</font></td>
<td><font color="white">6th</font></td>
```

```
</tr>
```

```
<tr>
<td><font color="white">Sudesh</font></td>
<td><font color="white">121139</font></td>
<td><font color="white">BSC</font></td>
<td><font color="white">6th</td>
```

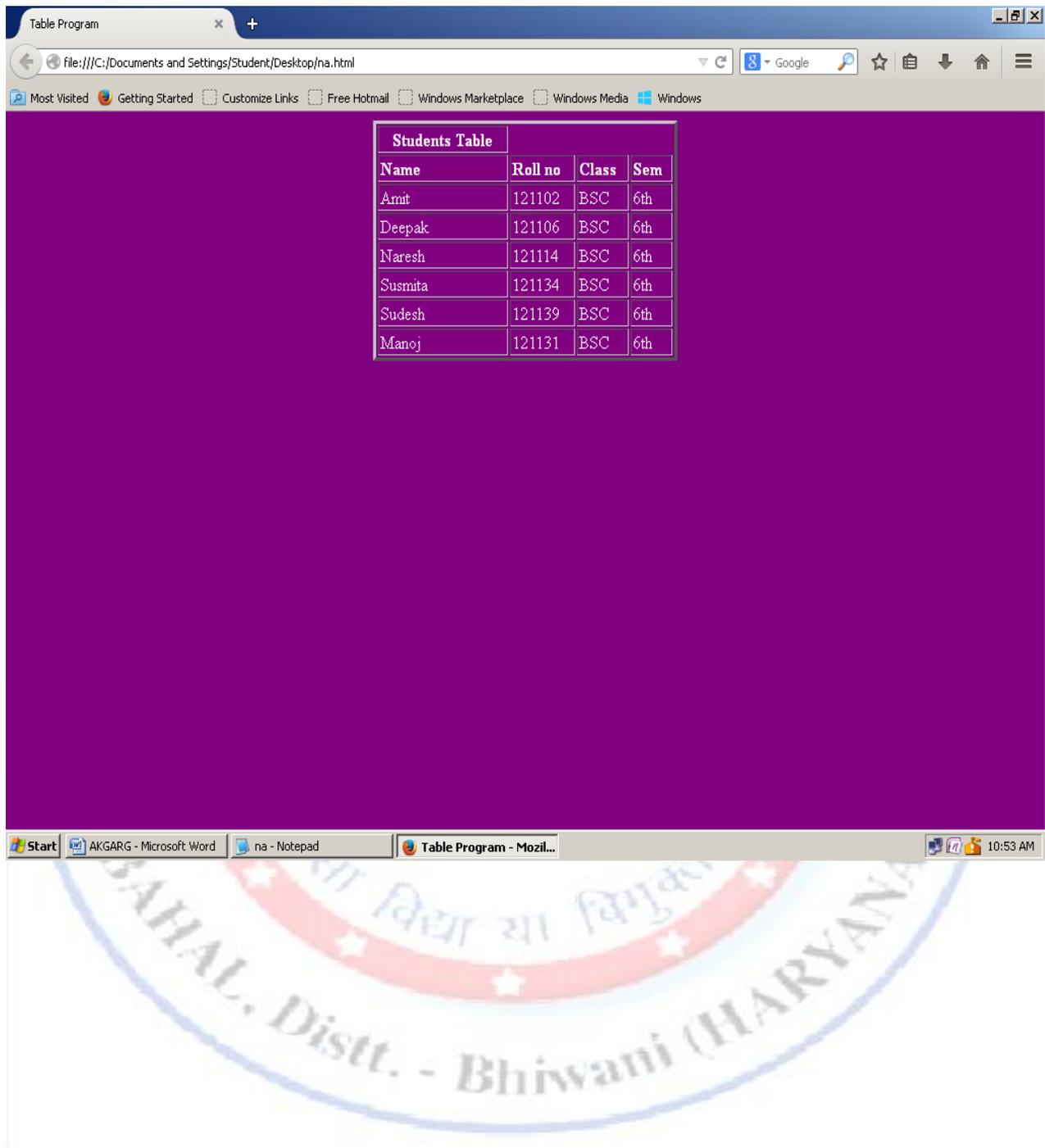
```
</tr>
```

```
<tr>
<td><font color="white">Manoj</font></td>
<td><font color="white">121131</font></td>
<td><font color="white">BSC</font></td>
<td><font color="white">6th</font></td>
```

</body></html>



OUTPUT:-



Program 5: To design an HTML page to create an ordered and unordered list of items and tags to provide link to different pages.

<html>

```
<head>
```

```
<title> List:ordered & unordered </title>
```

```
</head>
```

```
<body bgcolor="green">
```

```
<p>persons invited in party</p><br>
```

```
<a href="table.html">click on the link</a>
```

```
<h1 align="center">A list of items to be purchased for a B'day party</h1>
```

```
<ol>
```

```
<li> Ballons</li>
```

```
<li>B'day Cake</li>
```

```
<li>Sweets</li>
```

```
<li>Namkeen</li>
```

```
<li>Return Gifts</li>
```

```
</ol>
```

```
<ul>
```

```
<li>Chocolates</li>
```

```
<li>Cold Drink</li>
```

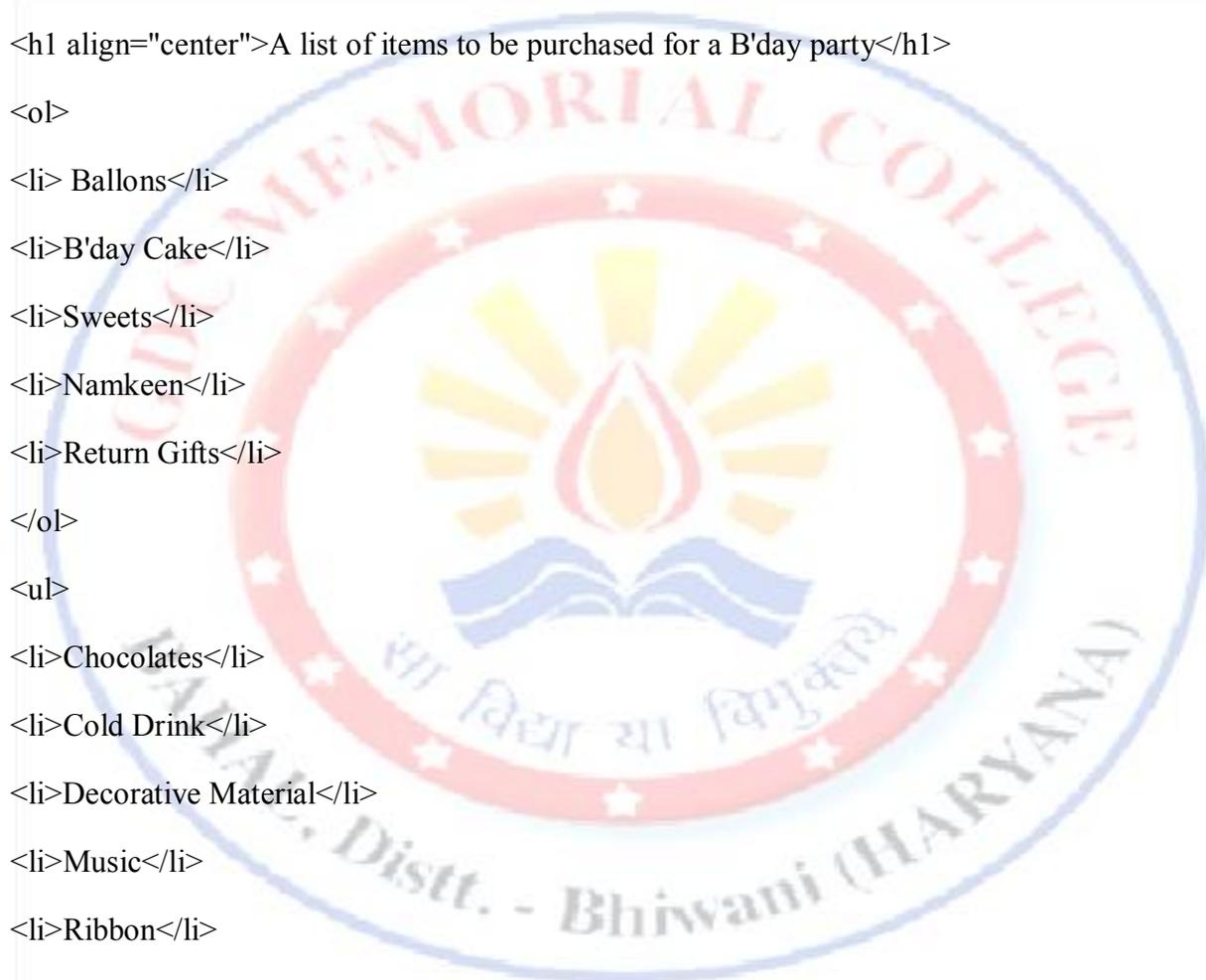
```
<li>Decorative Material</li>
```

```
<li>Music</li>
```

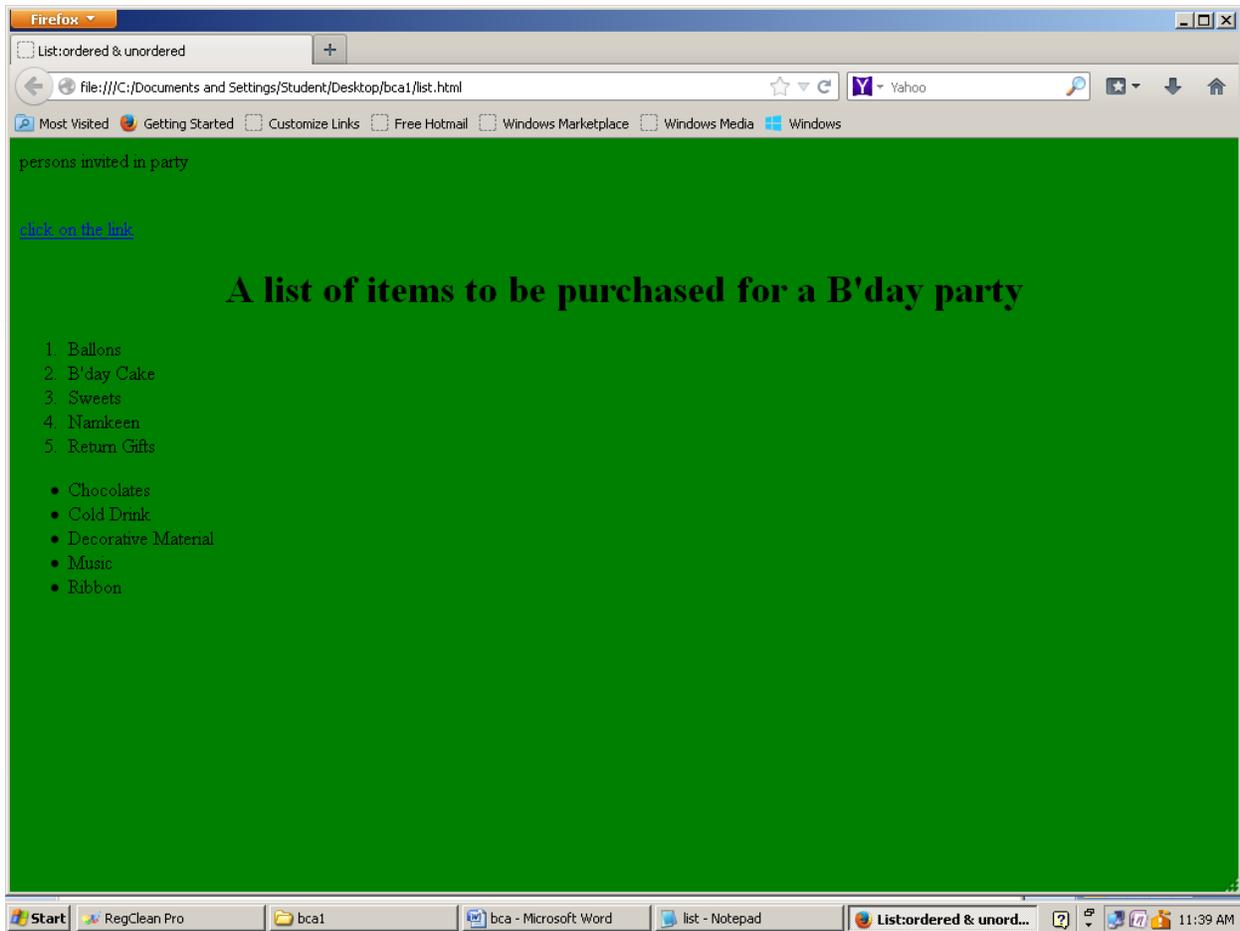
```
<li>Ribbon</li>
```

```
</ul>
```

```
</body></html>
```

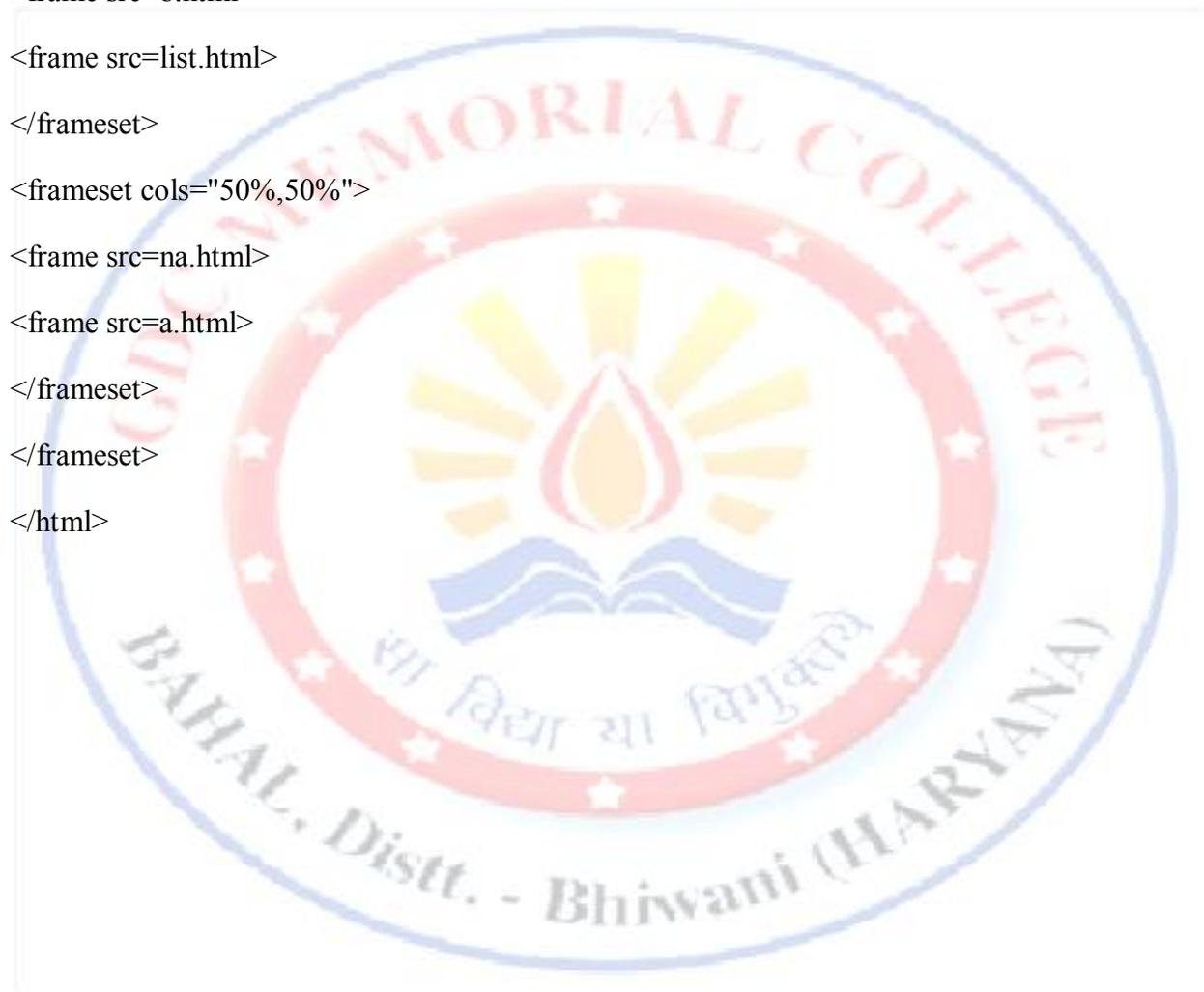


Output:-



Program 6: To design an HTML page that contains different frames in a single window.

```
<html>
<head>
<title>Frame</title></head>
<frameset rows="50%,50%">
<frameset cols="50%,50%">
<frame src=b.html>
<frame src=list.html>
</frameset>
<frameset cols="50%,50%">
<frame src=na.html>
<frame src=a.html>
</frameset>
</frameset>
</html>
```



Output:-



Program 7: To design an HTML page that contains CSS

Code for CSS file

body

```
{  
background-color:red  
}
```

```
h1
```

```
{  
font color:white  
}
```

Code for html file

```
<html>
```

```
<head>
```

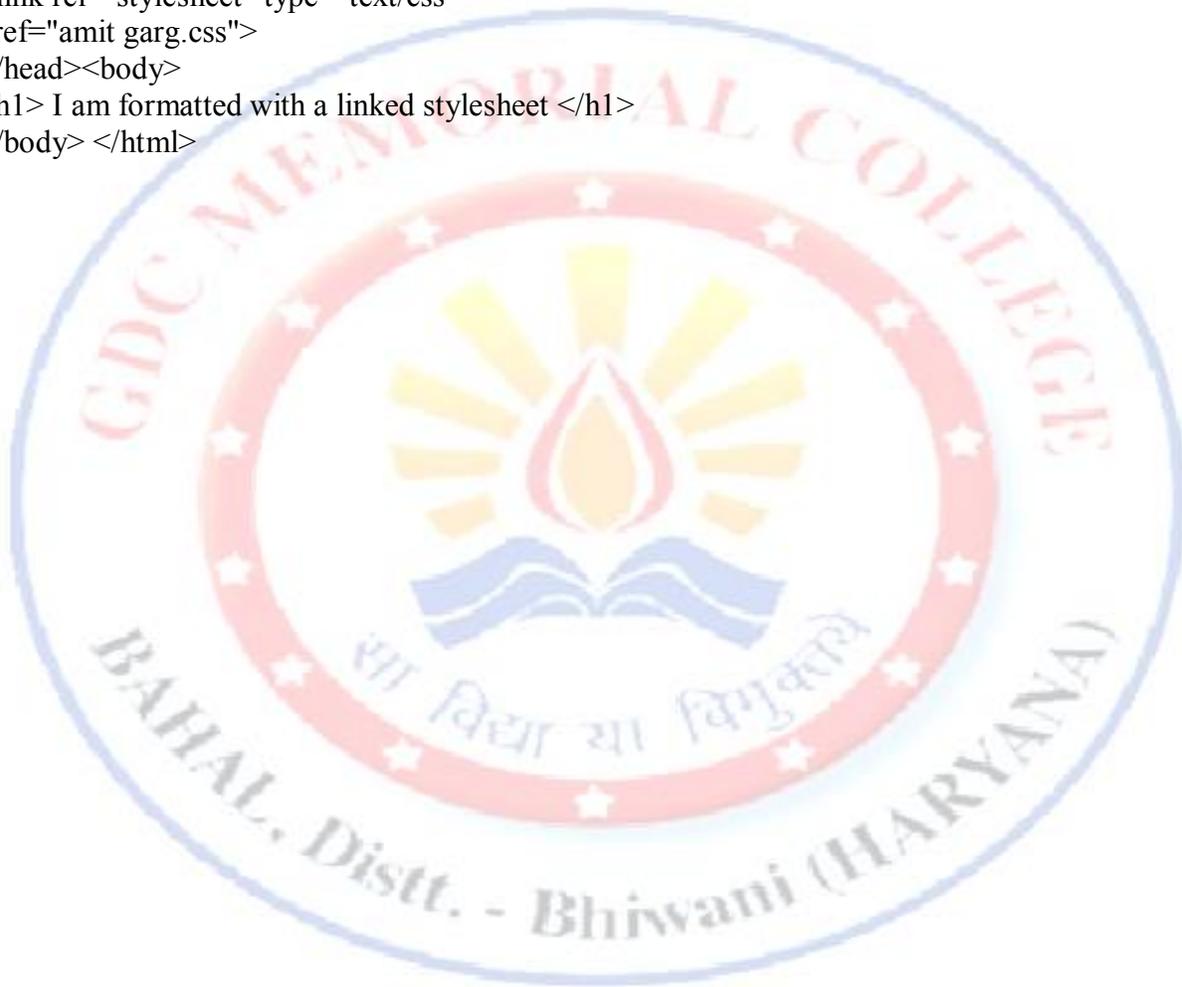
```
<link rel="stylesheet" type="text/css"
```

```
href="amit garg.css">
```

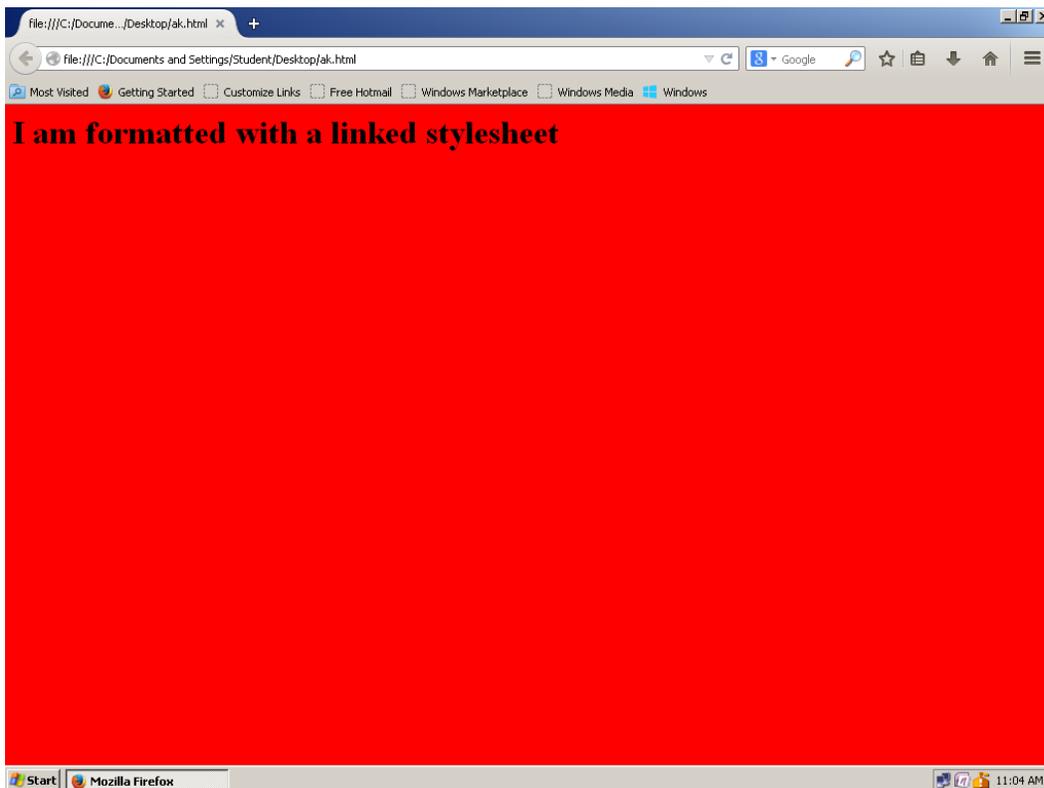
```
</head><body>
```

```
<h1> I am formatted with a linked stylesheet </h1>
```

```
</body> </html>
```



Output:-

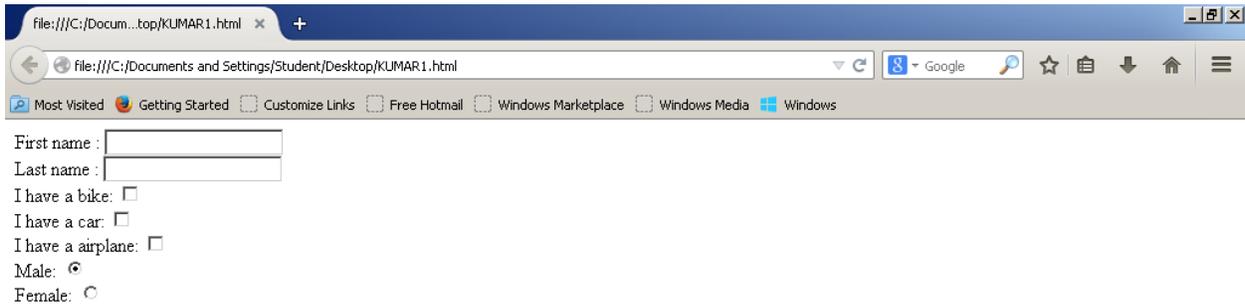


Program 8: To design a Form using HTML.

`<html>`

```
<body>
<form action="">
First name : <input type="text" name="firstname" /> </br>
Last name : <input type="text" name="lastname" />
</br>
I have a bike:
<input type="checkbox" name="vehicle" value="Bike">
<br>
I have a car:
<input type="checkbox" name="vehicle" value="Car">
<br>
I have a airplane:
<input type="checkbox" name="vehicle" value="airplane">
<br>
Male: <input type="radio" checked="checked" name="Sex" value="male" /> <br>
Female: <input type="radio" name="Sex" value="female" />
</form>
</body>
</html>
```

Output:-



Program 9: To design a Hyperlink of an image using HTML

<html>

```
<body>
```

```
<p>
```

create a link of an image:

```
<a href="touchnewheights.htm">
```

```
</img>
```

```
</a> </p>
```

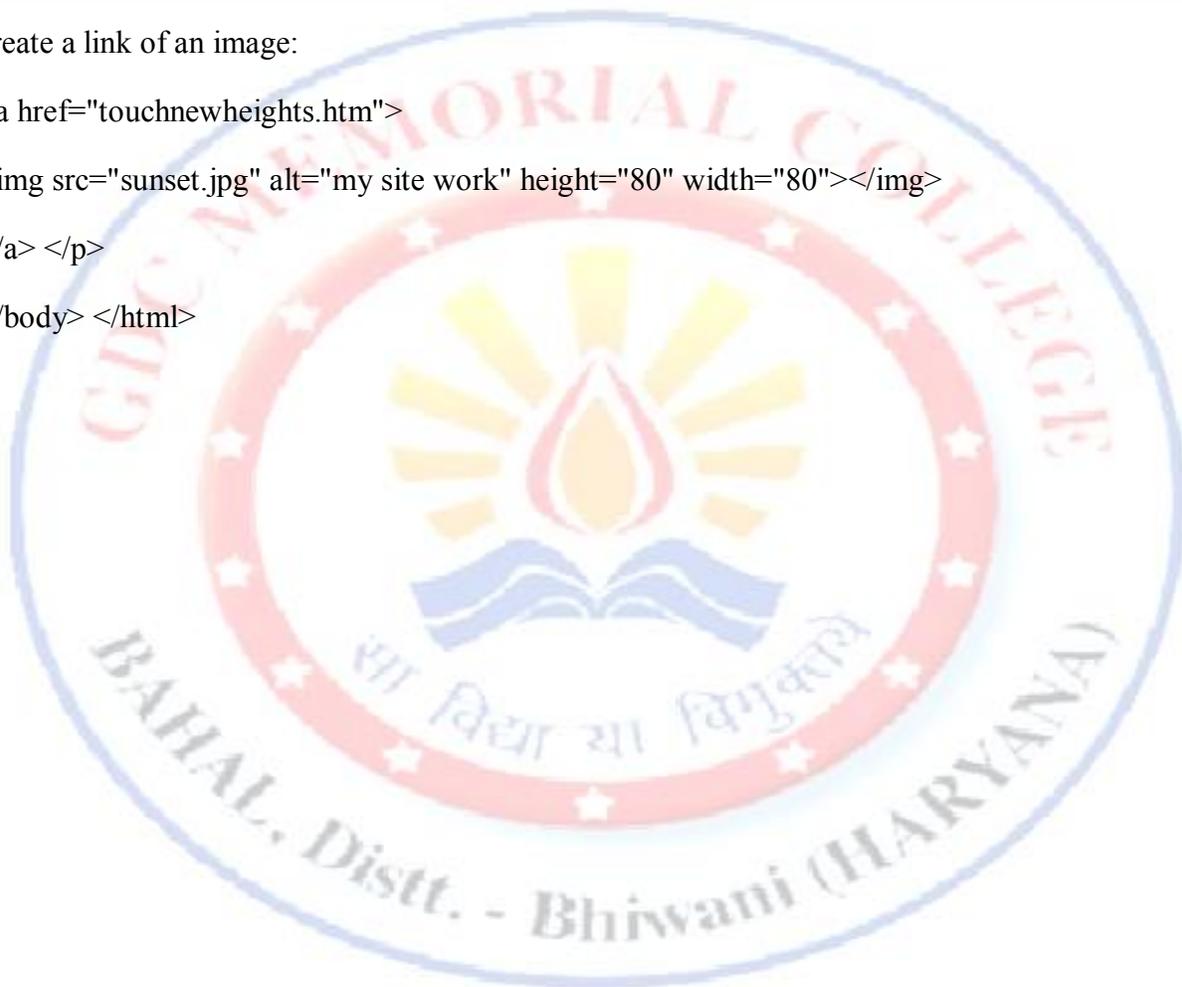
create a link of an image:

```
<a href="touchnewheights.htm">
```

```
</img>
```

```
</a> </p>
```

```
</body> </html>
```



Output:-



create a link of an image: 

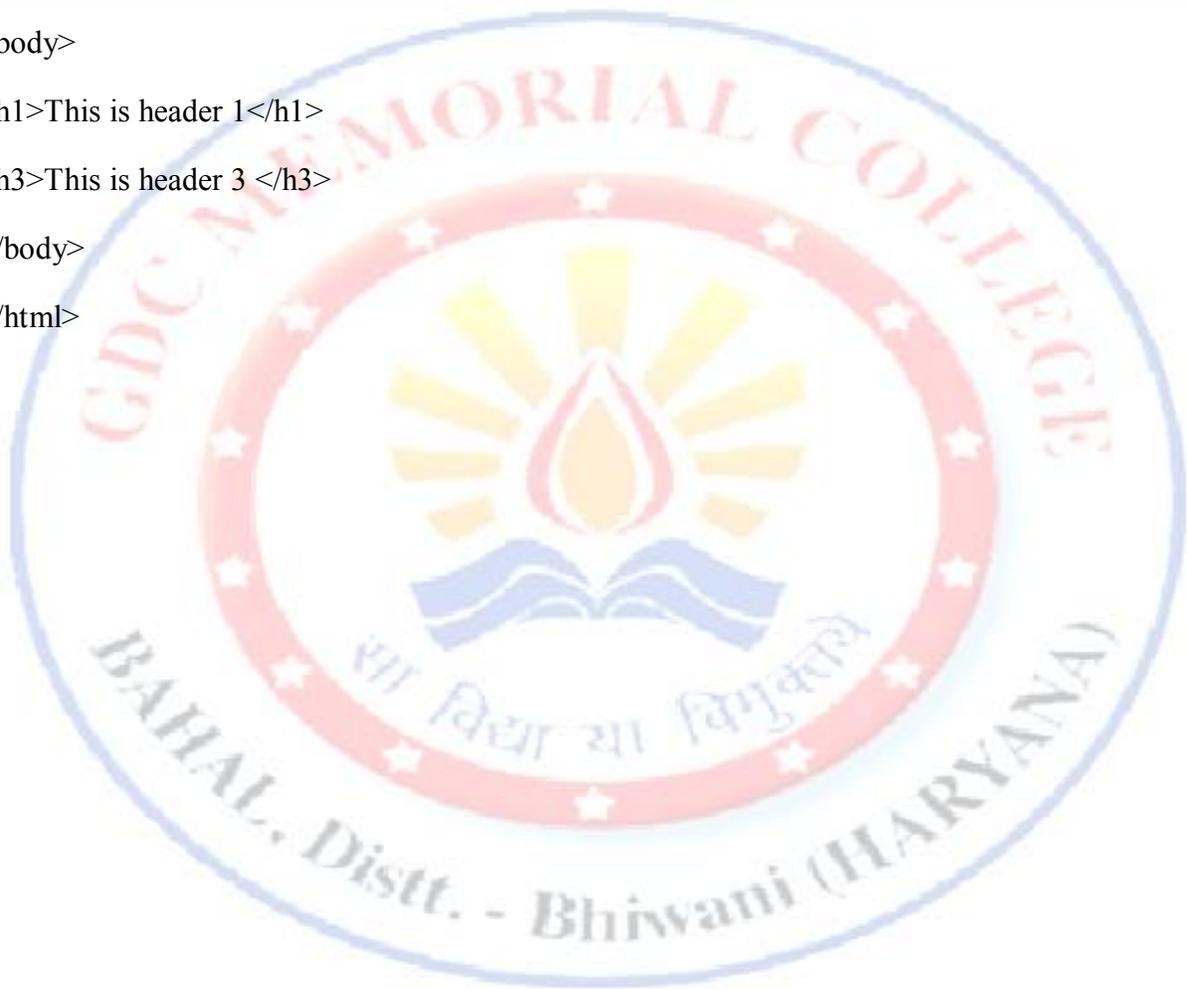
create a link of an image: 



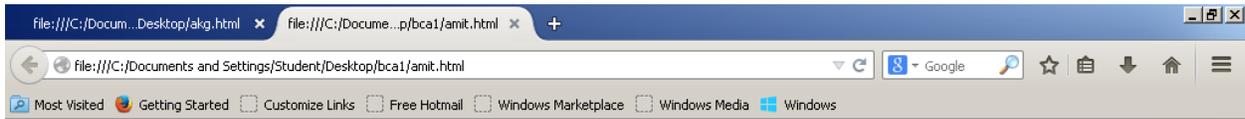
Program 10: To design a web page using Inline Styling.

<html>

```
<head>
<style type="text/css">
h1 {color: red}
h3 {color: blue}
</style>
</head>
<body>
<h1>This is header 1</h1>
<h3>This is header 3 </h3>
</body>
</html>
```



Output:-



This is header 1

This is header 3

