

# **WEB APPLICATION DEVELOPMENT LAB**

## **BCA-DS-345**

**Manav Rachna International Institute of  
Research and Studies**

**School of Computer Applications**

**Department of Computer Applications**

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S. No.	Date	Aim of the Experiment	Signature/ Date	Grade
1	14/08/24	Create a simple HTML page using basic tags.		
2	15/08/24	Create a web page that displays your name to the screen.		
3	16/08/24	Create a web page and show the output from 1 to 10 in		
4	18/08/24	Create a web page and show the output from 1 to 10 in		
5	20/08/24	How do I make a picture as a background on my web page?		
6	22/08/24	Create a web page to print a paragraph with 4-5 sentences, each sentence shall have a		
7	24/08/24	Write HTML code to print a paragraph that is description of a book, it shall include the title of the book, its author name; name and title should be underlined and all adjectives		
8	27/08/24	Write HTML code to print your name using heading tag, every letter shall be of different		
9	28/08/24	Write a HTML code to print the sequence of numbers 1-20. Each number shall be in different line with number 2 next to it as superscript, an equal		
10	29/08/24	Write HTML code to display an image with border of size with width 200, height 200 pixels, leaving Hspace and Vspace of your choice with image hanging		

11	2/09/24	Write HTML code to create a web page with heading. The heading shall be displayed at the top-center of the page and the image shall be at the center,		
12	5/09/24	Write HTML code using Multimedia tags.		
13	6/09/24	Create a table using Rowspan and Colspan taking example of student Record.		
14	9/09/24	Write HTML code using table tag <table> and cellpadding and cellspacing as its attribute.		
15	15/09/24	Create unordered, ordered and definition lists taking example of your subjects in MCA Ist, IInd and IIIrd semester.		

Q1. Create a simple HTML page using basic tags.

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<h1>HTML page</h1>
<p>A link for google website- </p>
<a href="https://www.google.com" target="_blank">Google website</a>
<p>Google is an <i>American search engine</i> company, founded in <b>1998</b> by <b>
<u>Sergey Brin and Larry Page</u></b>. Since 2015, Google has been a subsidiary of the
holding company Alphabet, Inc.</p>
</BODY>
</HTML>
```

## Output:

---

### HTML page

A link for google website-

[Google website](https://www.google.com)

Google is an *American search engine* company, founded in **1998** by **Sergey Brin and Larry Page**. Since 2015, Google has been a subsidiary of the holding company Alphabet, Inc.

Q2. Create a web page that displays your name to the screen.

Code:

```
<html>
<head>
<title>
HTML tags
</title>
</head>
<body>
<h1>Manik Dudeja</h1>
<h2>23/SCA/BCA/094</h2>
<h3>Web Application Development</h3>
</body>
</html>
```

Output:

**Manik Dudeja**

**23/SCA/BCA/094**

**Web Application Development**

Q3.Create a web page and show the output from 1 to 10 in separate lines.

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<p>
<h1>Programming languages</h1>
1.HTML
</br>
2.CSS
</br>
3.JAVA
</br>
4.C++
</br>
5.C programming
</br>
6.Python
</br>
7.JavaScript
</br>
8.COBOl
</br>
9.Pascal
</br>
10.SQL
</p>
</BODY>
</HTML>
```

Output:

# Programming languages

- 1.HTML
- 2.CSS
- 3.JAVA
- 4.C++
- 5.C programming
- 6.Python
- 7.JavaScript
- 8.COBOl
- 9.Pascal
- 10.SQL

Q4.Create a web page and show the output from 1 to 10 in separate lines, each number being in different colour.

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<h1>Programming languages</h1>
<h3 style="color:purple;">1.HTML</h3>
</br>
<h3 style="color:Blue;">2.CSS</h3>
</br>
<h3 style="color:Green;">3.JAVA</h3>
</br>
<h3 style="color:Orange;">4.C++</h3>
</br>
<h3 style="color:Red;">5.C programming</h3>
</br>
<h3 style="color:Yellow;">6.Python</h3>
</br>
<h3 style="color:Brown;">7.JavaScript</h3>
</br>
<h3 style="color:Pink;">8.COBOl</h3>
</br>
<h3 style="color:Black;">9.Pascal</h3>
</br>
<h3 style="color:rgb(173,216,230);">10.SQL</h3>
</BODY>
</HTML>
```



Output:

## **Programming languages**

1.HTML

2.CSS

3.JAVA

4.C++

5.C programming

6.Python

7.JavaScript

8.COBOl

9.Pascal

10..SQL

Q5.How do I make a picture as a background on my web page ?

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY background="C:\Users\hp\Desktop\New folder\flower.jpg">
</BODY>
</HTML>
```

Output:



Q6.Create a web page to print a paragraph with 4-5 sentences, each sentence shall have a different font.

## Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<p style="font-family:verdana">Computer science is the study of computers and computational
systems.</p>
<p style="font-family:'Courier New'"> It is a broad field which includes everything from the
algorithms that make up software to how software interacts with hardware to how well software
is developed and designed.</p>
<p style="font-family:Brush Script MT ">Computer scientists use various mathematical
algorithms, coding procedures, and their expert programming skills to study computer processes
and develop new software and systems.</p>
</BODY>
</HTML>
```

## Output:

Computer science is the study of computers and computational systems.

It is a broad field which includes everything from the algorithms that make up software to how software interacts with hardware to how well software is developed and designed.

*Computer scientists use various mathematical algorithms, coding procedures, and their expert programming skills to study computer processes and develop new software and systems.*

Q7. Write HTML code to print a paragraph that is description of a book, it shall include the title of the book, its author name; name and title should be underlined and all adjectives shall be bold and italics.

Code:

```
<HTML>
<HEAD>
<style>
h1{
text-align:center;
}
h2{
padding-left:400px;
}
</style>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<h1><u>The ball</u></h1>
<h2><u>~Divanshi Chambail</u></h2>
<p>The ball is of <b><i>blue</i></b> colour.It is very
<b><i>light</i></b> in weight. I have another ball but of
<b><i>red</i></b> colour.</p>
</BODY>
</HTML>
```

Output:

# The ball

~Divanshi Chambail

The ball is of *blue* colour. It is very *light* in weight. I have another ball but of *red* colour.

Q8. Write HTML code to print your name using heading tag, every letter shall be of different heading size.

Code:

```
<html>
<head>
<title>
HTML tags
</title>
</head>
<body>
<h1>M</h1>
<h2>A</h2>
<h3>N</h3>
<h4>I</h4>
<h5>K</h5>
</body>
</html>|
```

Output:

**M**

**A**

**N**

**I**

**K**

Q9. Write a HTML code to print the sequence of numbers 1-20. Each number shall be in different line with number 2 next to it as superscript, an equal sign and the result.

Code:

```

<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<p>
1<sup>2</sup>=1
</br>
2<sup>2</sup>=4
</br>
3<sup>2</sup>=9
</br>
4<sup>2</sup>=16
</br>
5<sup>2</sup>=25
</br>
6<sup>2</sup>=36
</br>
7<sup>2</sup>=49
</br>
8<sup>2</sup>=64
</br>
9<sup>2</sup>=81
</br>
10<sup>2</sup>=100
</br>
11<sup>2</sup>=121
</br>
12<sup>2</sup>=144
</br>
13<sup>2</sup>=169
</br>
14<sup>2</sup>=196
</br>
15<sup>2</sup>=225
</br>
16<sup>2</sup>=256
</br>
17<sup>2</sup>=289
</br>
18<sup>2</sup>=324
</br>
19<sup>2</sup>=361
</br>
20<sup>2</sup>=400
</p>
</BODY>
</HTML>

```

Output:



---

$1^2=1$   
 $2^2=4$   
 $3^2=9$   
 $4^2=16$   
 $5^2=25$   
 $6^2=36$   
 $7^2=49$   
 $8^2=64$   
 $9^2=81$   
 $10^2=100$   
 $11^2=121$   
 $12^2=144$   
 $13^2=169$   
 $14^2=196$   
 $15^2=225$   
 $16^2=256$   
 $17^2=289$   
 $18^2=324$   
 $19^2=361$   
 $20^2=400$

Q10. Write HTML code to display an image with border of size with width 200, height 200 pixels, leaving Hspace and Vspace

of your choice with image hanging in the right side on the screen.

Code:

```
<HTML>
<HEAD>
<style>
img{
border: 7px solid black;
border-radius:10%;
}
</style>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>

</BODY>
</HTML>
```

Output:



Q11. Write HTML code to create a web page with heading. The heading shall be displayed at the top-center of the page and the image shall be at the center, just below the heading.

Code:

```
<HTML>
<HEAD>
<style>
img{
margin-left:500px;
border: 7px solid black;
border-radius:10%;
}
h1{
text-align:center;
}
</style>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<h1>Computer</h1>

</BODY>
</HTML>
```

Output:

**Computer**



Q12. Write HTML code using Multimedia tags.

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<iframe width="560" height="315" src="https://www.youtube.com/embed/HcOc7P5BMi4?si=UYB4WX796in5UXVv"
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-
media; gyroscope; picture-in-picture; web-share" referrerpolicy="strict-origin-when-cross-origin"
allowfullscreen>Apna college</iframe>
</BODY>
</HTML>
```

Output:



Q13.Create a table using Rowspan and Colspan taking example of student Record.

Code:

```
<HTML>
<HEAD>
<style>
table{
border:solid 5px;
}
th{
border:solid 3px;
}|
td{
border:solid 2px;
}
</style>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<table>
<tr>
<th colspan="2">
Subjects
</th>
<th>
Marks
</th>
</tr>
```

```
<tr>
<th colspan="2">
Mathematics
</th>
<td>
28
</td>
</tr>
<tr>
<th rowspan="2">
English
</th>
<th>
Literature
</th>
<td>
45
</td>
</tr>
<tr>
<th>
Grammer
</th>
<td>
56
</td>
</tr>
```

```
<tr>
<th colspan="2">
Computer
</th>
<td>
57
</td>
</tr>
</table>
</BODY>
</HTML>
```

Output:

Subjects		Marks
Mathematics		28
English	Literature	45
	Grammer	56
Computer		57

Q14. Write HTML code using table tag <table> and cellpadding and cellspacing as its attribute.

Code:

```
<HTML>
<HEAD>
<style>
table{
border:solid 5px;
border-spacing:30px;
}
th,td{
border:solid 3px;
padding: 30px;
}
</style>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<table>
<tr><th>Subject</th>
<th>Marks</th></tr>
<tr><th>Maths</th>
<td>56</td></tr>
<tr><th>Science</th>
<td>67</td></tr>
<tr><th>English</th>
<td>49</td></tr>
</table>
</BODY>
</HTML>
```



Output:

---

Subject	Marks
Maths	56
Science	67
English	49

Q15.Create unordered, ordered and definition lists taking example of your subjects in MCA Ist, IInd and IIIrd semester.

Code:

```
<HTML>
<HEAD>
<TITLE>
HTML tags
</TITLE>
</HEAD>
<BODY>
<h1>MCA subjects</h1>
<ol>
<li>First semester<ul>
<li><dl>
<dt>Computer architecture</dt>
<dd>Computer architecture is a description of the structure of a computer system made from component parts</dd></dl>
</li><li><dl>
<dt>Data structure</dt>
<dd>A data structure is a data organization and storage format that is usually chosen for efficient access to data</dd>
</dl></li></ul></li>
<li>Second semester<ul>
<li><dl>
<dt>Software engineering</dt>
<dd>Software engineering is an engineering approach to software development</dd>
</dl></li><li><dl>
<dt>Mathematical Structure</dt>
<dd>In mathematics, a structure is a set provided with some additional features on the set</dd>
</dl></li></ul></li>
<li>Third semester<ul>
<li><dl>
<dt>Operation Research</dt>
<dd>Operation Research is a discipline that deals with the development and application of analytical methods to improve decision-making</dd>
</dl></li><li><dl>
<dt>Artificial Intelligence</dt>
<dd>Artificial Intelligence refers to the simulation of human intelligence in machines</dd>
</dl></li></ul></li>
</ol>
</BODY>
</HTML>
```

Output:

# MCA subjects

## 1. First semester

- Computer architecture  
Computer architecture is a description of the structure of a computer system made from component parts
- Data structure  
A data structure is a data organization and storage format that is usually chosen for efficient access to data

## 2. Second semester

- Software engineering  
Software engineering is an engineering approach to software development
- Mathematical Structure  
In mathematics, a structure is a set provided with some additional features on the set

## 3. Third semester

- Operation Research  
Operation Research is a discipline that deals with the development and application of analytical methods to improve decision-making
- Artificial Intelligence  
Artificial Intelligence refers to the simulation of human intelligence in machines