

Lab Assignment - 1

B.Tech in Computer Science and Engineering (CSE), Winter Semester 2021

| | |
|----------------------|-------------------|
| Name: | Abhishek Kushwaha |
| Registration Number: | 18BCE0492 |
| Slot: | F2 |
| Faculty Name: | Prof Malathy E |

1) HTMLEXERCISES

- a. Print your name and RegNo in green color with different style of your choice.
- b. Print the numbers 1 - 10, each number being a different color.
- c. Print a paragraph with 4 - 5 sentences. Each sentence should be a different font
- d. Print a paragraph that is a description of a book; include the title of the book as well as its author. Names and titles should be underlined, adjectives should be italicized and bolded.
- e. Print your name to the screen with every letter being a different heading size.
- f. Write a comment line on your code and make sure it is not displayed in the page
- g. Display a c code as it is in the page
- h. Set the background color of the page as yellow
- i. Apply marquee for your name

Code :

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

<!-- h. Set the background color of the page as yellow --&gt;
&lt;body style="background-color:YELLOW"&gt;
    <!-- a. Print your name and RegNo in green color with different
style of your choice. --&gt;

&lt;div style = "color:GREEN; size:30; font-family: 'Courier';"&gt;
18BCE0492 Abhishek Kushwaha
&lt;/div&gt;

<!-- b. Print the numbers 1 - 10, each number being a different
color. --&gt;
&lt;div style = "color:RED;"&gt;
1
&lt;/div&gt;
&lt;div style = "color:ORANGE;"&gt;
2
&lt;/div&gt;
&lt;div style = "color:PURPLE;"&gt;
3
&lt;/div&gt;</pre>
```

```
<div style = "color:TURQUOISE;">
4
</div>
<div style = "color:PINK;">
5
</div>
<div style = "color:INDIGO;">
6
</div>
<div style = "color:BLUE;">
7
</div>
<div style = "color:BROWN;">
8
</div>
<div style = "color:BLACK;">
9
</div>
<div style = "color:GREY;">
10
</div>
<!-- c. Print a paragraph with 4 - 5 sentences. Each sentence
should be a different font -->

<p>
<font face="Times New Roman">
Hi there! I am Abhishek, a Learning Developer!
</font>
<font face="Courier New">
I like software development, and also gaming.
</font>
</p>
<font face="Helvetica">
My favourites include solving CTF challenges and working on
innovative ideas
</font>
<font face="Verdana">
I am also interested in Shell Programming and Kernel Development.
</font>
```

```
<!-- d. Print a paragraph that is a description of a book;  
include the title of the book as  
well as its author. Names and titles should be underlined,  
adjectives should be  
italicized and bolded. -->  
  
<span>  
<h3><U>The Web Application Hacker's Handbook, 2nd ed.</U></h3>  
<h4><U>By Dafydd Stuttard & Marcus Pinto</U></h4>  
<p>  
<U>The Web Application Hacker's Handbook</U>, an advanced book by  
<U>Dafydd Stuttard</U>, & <U> Marcus Pinto</U>is one of the most  
<B><I>popular</B></I> books for Finding and Exploiting Security  
Flaws for <U>university students</U>  
It is perhaps the <B><I>most</B></I> popular book in its era of  
release, <B>that changed the idea of <U>HACKERS</U></B> being bad  
men to getting the due respect today.  
It tells the ideas of different <B><I>Vulnerabilites</B></I> and  
<B><I>Exploits</B></I> in the form of a series of  
<I>stories</I>, which are mostly said to be inspired by the  
famous hacker  
<U>Kevin Mettnick</U>  
</p>  
<!-- e. Print your name to the screen with every letter being a  
different heading size. -->  
<h1>A</h1>  
  
<h2>B</h2>  
  
<h3>H</h3>  
  
<h4>I</h4>  
  
<h5>S</h5>  
  
<h6>H</h6>  
  
<h5>E</h5>  
  
<h4>K</h4>
```

```
<!--f. Write a comment line on your code and make sure it is not  
displayed in the page-->  
<!--Mam if you are reading this, and its not visible in the  
broswer page, then this is a comment for sure -->  
  
<!--  
  
g. Display a c code as it is in the page  
-->  
<pre>  
/*C graphics program to draw a line.*/  
  
#include <graphics.h>  
#include <conio.h>  
  
main()  
{  
    int gd = DETECT, gm;  
  
    //init graphics  
    initgraph(&gd, &gm, "C:/TURBOC3/BGI");  
    /*  
    if you are using turboc2 use below line to init graphics:  
    initgraph(&gd, &gm, "C:/TC/BGI");  
    */  
  
    //draw a line  
  
    /*  
    line() function description  
    parameter left to right  
    x1: 100  
    y1: 100  
    x2: 200  
    y2: 100  
    */  
    line(100,100,200,100);      //will draw a horizontal line
```

```
line(10,10,200,10); //will draw another horzonatl line

getch();
closegraph();
return 0;
}

</pre>
<!-- h has been done up with the entire body given a background
colour-->
<!-- i. Apply marquee for your name -->
<marquee><h3>Abhishek Kushwaha</h3></marquee>
</body>
</html>
```

Output:

16BCE0492 Abhishek Kushwaha

1
2
3
4
5
6
7
8
9
10

Hi there! I am Abhishek, a Learning Developer! I like software development, and also gaming.
My favourites include solving CTF challenges and working on innovative ideas I am also interested in Shell Programming and Kernel Development.

The Web Application Hacker's Handbook, 2nd ed.

By Dafydd Stuttard & Marcus Pinto

The Web Application Hacker's Handbook, an advanced book by Dafydd Stuttard & Marcus Pinto is one of the most *popular* books for Finding and Exploiting Security Flaws for university students. It is perhaps the *most* popular book in its era of release, that changed the ideas of HACKERS being bad men to getting the due respect today. It tells the ideas of different *Vulnerabilities* and *Exploits* in the form of a series of *stories*, which are mostly said to be inspired by the famous hacker Kevin Mitnick.

A
B
H
I
S
H
E

S
H
E
K

```
/*C graphics program to draw a line.*/
#include
#include

main()
{
    int gd = DETECT, gm;
    //init graphics
    initgraph(gd, gm, "C:/TURBOC3/BGI");
    /* if you are using turboC2 use below line to init graphics:
    initgraph(gd, gm, "C:/TC/BGI");
    */

    //draw a line
    /*
    line0 function description
    parameter left to right
    xl: 100
    yl: 100
    x2: 200
    y2: 100
    */
    line(100,100,200,100);    //will draw a horizontal line
    line(10,10,200,10); //will draw another horizontal line
    getch();
    closegraph();
    return 0;
}
```

Abhishek Kushwaha

2) Create a page aboutme.html that describes you. Include information such as:

- a. Your name in the top of the page in large text and your address in smaller text
- b. A description of you in <= 2 sentences. Emphasize important word(s) in bold.
- c. A list of classes you are taking right now with a simple description of each with interesting subjects in marvellous colours.
- d. Your 3 favourite movies, books, or TV shows, in order. Make at least one link to an interesting site about that TV show/movie/book
- e. Two images that represent you when you're happy and sad.
- f. Something about one of your neighbours (people sitting next to you, make it interesting as well).
- g. Describe your skill level in programming languages.

Code :

```
<html>
<head>
<title>aboutme</title>
</head>
<body>
<!--a) Your name in the top of the page in large text and your address in smaller text--&gt;
&lt;!--Name--&gt;
&lt;div style="font-size:50;"&gt;Abhishek Kushwaha&lt;/div&gt;
&lt;br&gt;
&lt;!--Address--&gt;
&lt;div style="font-size:20;"&gt;76, Beni Banerjee Avenue Kolkata - 700031&lt;/div&gt;
<!--b) A description of you in &lt;= 2 sentences. Emphasize important word(s) in bold.--&gt;
&lt;div&gt;
&lt;br&gt;
Hello, this is Abhishek Kushwaha, an aspiring &lt;b&gt;ethical hacker&lt;/b&gt; and &lt;b&gt;technology enthusiast&lt;/b&gt;!
&lt;br&gt;
I live in &lt;b&gt;Kolkata&lt;/b&gt; and am currently studying in &lt;b&gt;Vellore Institute of Technology, VIT&lt;/b&gt;
&lt;/div&gt;
&lt;br&gt;
&lt;br&gt;</pre>
```

```
<!--c. A list of classes you are taking right now with a simple  
description of each  
with interesting subjects in marvellous colours.-->  
<div>  
I am currently taking the following classes in my current  
semester:  
<ol>  
<li> <div style='color: red'>Network Security</div> </li>  
Due to my keen interest in CyberSec, I took up this subject this  
semester and am planning to work on some wonderful research  
article on an interesting topic <br>related to the subject.  
This subject mostly deals with the different security practices  
and attacks.  
<li> <div style='color: green'>Java</div></li>  
Java is one of our compulsory electives, and I am really looking  
forward to adding a new language to my arsenal.  
This subject mostly deals with Programming paradigms and OOPS  
concepts.  
<li> <div style='color: blue'>Internet and Web  
Programming</div></li>  
I am very passionate on building stuff that is scalable,  
distributable and web based.  
Hence I took up this subject to explore my passion.  
This subject deals with making basic web application that involve  
frontend and backend.  
</ol>  
</div>  
<!--d.Your 3 favourite movies, books, or TV shows, in order. Make  
at least one  
link to an interesting site about that TV show/movie/book-->  
<div>  
My favourite books are the following:  
<ol>  
<li> <div style='color: Orange'>Hacking, the Art of  
Exploitation</div> </li>  
Hacking: The Art of Exploitation (ISBN 1-59327-007-0) is a book  
by Jon "Smibbs" Erickson about computer security and network  
security. It was published by No Starch Press in 2003, with a  
second edition in 2008. All of the examples in the book were  
developed, compiled, and tested on Gentoo Linux.
```

```
<div>
<a href='https://drive.google.com/file/d/1ktDdquq17dIfybx4HTeR0QILWc7KHFqW/view' target="_blank" rel="noopener noreferrer">Read It Here!</a>&nbsp;&nbsp;&nbsp;&nbsp;<a href='https://www.amazon.in/Hacking-Art-Exploitation-Jon-Erickson/dp/1593271441/ref=sr_1_1?dchild=1&keywords=Hacking+2nd+Edition+the+art+of+exploitation&qid=1615118893&sr=8-1' target="_blank" rel="noopener noreferrer">Buy it Here!</a>
</div>
<br>
<li> <div style='color: Magenta'>Building Microservices, Fine grained Systems</div></li>


Distributed systems have become more fine-grained as organizations shift from code-heavy monolithic applications to smaller, self-contained microservices. But developing these systems brings its own set of problems. With lots of examples and practical advice, this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building, managing, and evolving microservices architectures.


<div>
<a href='http://ce.sharif.edu/courses/96-97/1/ce924-1/resources/root/Books/building-microservices-designing-fine-grained-systems.pdf' target="_blank" rel="noopener noreferrer">Read It Here!</a>&nbsp;&nbsp;&nbsp;&nbsp;<a href='https://www.amazon.com/dp/1491950358?tag=bbookshub-20&linkCode=ogi&th=1&psc=1' target="_blank" rel="noopener noreferrer">Buy it Here!</a>
</div>
<br>
<li> <div style='color: #03fcad'>The Art of Intrusion</div></li>


Kevin Mitnick, the world's most celebrated hacker, now devotes his life to helping businesses and governments combat data thieves, cybervandals, and other malicious computer intruders. In his bestselling The Art of Deception, Mitnick presented fictionalized case studies that illustrated how savvy computer crackers use "social engineering" to compromise even the most technically secure computer systems. Now, in his new book,


```

Mitnick goes one step further, offering hair-raising stories of real-life computer break-ins-and showing how the victims could have prevented them.

```

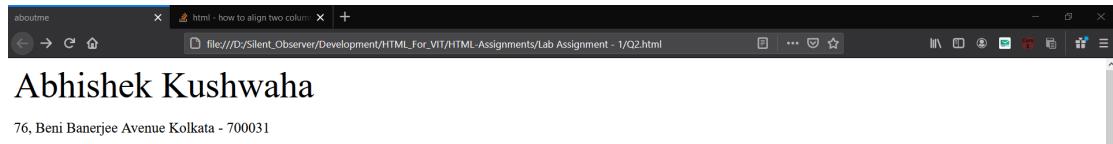
<div>
<a href='https://repo.zenk-security.com/Magazine%20E-book/Kevin_Mitnick_-_The_Art_of_Intrusion.pdf' target="_blank" rel="noopener noreferrer">Read It Here!</a>&nbsp;&nbsp;&nbsp;<a href='https://www.amazon.in/Art-Intrusion-Exploits-Intruders-Deceivers/dp/0764569597' target="_blank" rel="noopener noreferrer">Buy it Here!</a>
</div>
<br>
</ol>
</div>
<!--e. Two images that represent you when you're happy and sad.--&gt;
<!--Happy Image--&gt;
&lt;div&gt;
&lt;div class="row"&gt;
&lt;div class="column"&gt;
&lt;div style="text-align:left; margin: 0px 0px 0px 250px;"&gt;
    Happy Me
&lt;/div&gt;
&lt;div style="text-align:right; margin: 0px 250px 0px 0px;"&gt;
    Sad Me
&lt;/div&gt;
&lt;img style="float: left; margin: 0px 0px 50px 50px;" src="https://www.codingame.com/blog/wp-content/uploads/2018/02/happy.jpg" alt="Happy Picture" width="500" height="300"/>

<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
!--f. Something about one of your neighbours (people sitting next to you, make it interesting as well--)>

```

```
The biggest regret right now I have is that I have an exam  
tomorrow, and I was too lazy to complete my assignment before --  
This is me now 😞(I hope I can make it in time.)  
<br>  
<br>  
<center></center>  
<br>  
<br>  
<!--g.Describe your skill level in programming languages.-->  
My programming skills are something like I grades, I try  
improving every sem and then they end up like my new year  
resolutions, lost and forgotten<br>  
I prefer coding in the following languages:  
<ol>  
<li>Python - This guy always has my back, easiest to learn, and I  
have been doing this since class 8.</li>  
<li>Golang - This sweet language helps me to build scalable stuff  
with excellent performance(better than C++ sometimes), but takes  
a bit long to develop compared to python.</li>  
<li>Rust - This beast is the most scalable(better than C++ in  
terms of memory management and concurrency) and I am trying to  
learn this for over two months now. Good for building  
applications and has control over each and every grain of  
performance and optimization.  
</div>  
</div>  
<br>  
</body>  
</html>
```

Output:



I am currently taking the following classes in my current semester:

1. Network Security

Due to my keen interest in CyberSec, I took up this subject this semester and am planning to work on some wonderful research article on an interesting topic related to the subject. This subject mostly deals with the different security practices and attacks.

2. Java

Java is one of our compulsory electives, and I am really looking forward to adding a new language to my arsenal. This subject mostly deals with Programming paradigms and OOPS concepts.

3. Internet and Web Programming

I am very passionate on building stuff that is scalable, distributable and web based. Hence I took up this subject to explore my passion. This subject deals with making basic web application that involve frontend and backend.

My favourite books are the following:

1. Hacking, the Art of Exploitation

Hacking: The Art of Exploitation (ISBN 1-59327-007-0) is a book by Jon "Smibbs" Erickson about computer security and network security. It was published by No Starch Press in 2003, with a second edition in 2008. All of the examples in the book were developed, compiled, and tested on Gentoo Linux.
[Read It Here!](#) [Buy it Here!](#)

2. Building Microservices, Fine grained Systems

Distributed systems have become more fine-grained as organizations shift from code-heavy monolithic applications to smaller, self-contained microservices. But developing these systems brings its own set of problems. With lots of examples and practical advice, this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building, managing, and evolving microservices architectures.
[Read It Here!](#) [Buy it Here!](#)

3. The Art of Deception

Kevin Mitnick, the world's most celebrated hacker, now devotes his life to helping businesses and governments combat data thieves, cybervandals, and other malicious computer intruders. In his bestselling The Art of Deception, Mitnick presented fictionalized case studies that illustrated how savvy computer crackers use "social engineering" to compromise even the most technically secure computer systems. Now, in his new book, Mitnick goes one step further, offering hair-raising stories of real-life computer break-ins and showing how the victims could have prevented them.
[Read It Here!](#) [Buy it Here!](#)

Happy Me



The biggest regret right now I have is that I have an exam tomorrow, and I was too lazy to complete my assignment before ___. This is me now 😢 (I hope I can make it in time.)



My programming skills are something like 1 grades. I try improving every sem and then they end up like my new year resolutions, lost and forgotten. I prefer coding in the following languages:

1. Python - This guy always has my back, easiest to learn, and I have been doing this since class 8

2. Golang - This sweet language helps me to build scalable stuff with excellent performance(better than C++ sometimes), but takes a bit long to develop compared to python

3. Rust - This beast is the most scalable(better than C++ in terms of memory management and concurrency) and I am trying to learn this for over two months now. Good for building applications and has control over each and every grain of performance and optimization.



3) HTML TEXT FORMATTING, LISTS EXERCISES

- a. Prints 10 names with a line break between each name. The list should be alphabetized, and to do this place a subscripted number next to each name based on where it will go in the alphabetized list. (Example: Alan₁). Print first, the unalphabetized list with a subscript number next to each name, then the alphabetized list. Both lists should have an <h1> level heading.
- b. Print two lists with any information you want. One list should be an ordered list, the other list should be an unordered list.
- c. Print a list which starts with 7 with the type i
- d. Print two addresses in the same format used on the front of envelopes (senders address in top left corner, receivers address in the center)
- e. Print ten acronyms and abbreviations of your choosing, each separated by two lines. Specify the data that the abbreviations and acronyms represent

Code :

```
<html>
<body>
<!-- a. Prints 10 names with a line break between each name. The
list should be
alphabetized, and to do this place a subscripted number next to
each name based
on where it will go in the alphabetized list. (Example: Alan1).
Print first, the
unalphabetized list with a subscript number next to each name,
then the
alphabetized list. Both lists should have an <h1> level heading.
-->
<h1>Unalphabetized list</h1>
Acer<sub>1</sub>
<br>
Predator<sub>9</sub>
<br>
Dell<sub>3</sub>
<br>
Microsoft<sub>6</sub>
<br>
MSI<sub>7</sub>
```

```
<br>
Lenovo<sub>5</sub>
<br>
Apple<sub>2</sub>
<br>
Huawai<sub>4</sub>
<br>
Samsung<sub>10</sub>
<br>
Nokia<sub>8</sub>

<h1>Alphabetized list</h1>

Acer
<br>
Apple
<br>
Dell
<br>
Huawai
<br>
Lenovo
<br>
Microsoft
<br>
MSI
<br>
Nokia
<br>
Predator
<br>
Samsung
<br>
<!-- b. Print two lists with any information you want. One list
should be an ordered list,
the other list should be an unordered list.-->
<br>
<b>Types of CyberSec attacks.</b>

<ol type="I">
```

```
<li>Sql Injection</li>
<li>Man In the Middle</li>
<li>Spoofing</li>
<li>Tab napping</li>
</ol>

<b>Steps for Pentesting</b>

<ul type="circle">
<li>Planning and Reconnaissance</li>
<li>Scanning</li>
<li>Gaining Access</li>
<li>Maintaining Access</li>
<li>Analysis</li>
</ul>

<!-- c. Print a list which starts with 7 with the type i -->
Slots, I have exams in this sem:
<ol type="i" start="7">
<li>A2</li>
<li>B2</li>
<li>C2</li>
<li>D2</li>
<li>E2</li>
<li>F2</li>
<li>G2</li>
</ol>
<br><br>
<!-- d. Print two addresses in the same format used on the front
of envelopes (senders
address in top left corner, receivers address in the center) -->
<address>
Abhishek Kushwaha<br>
Vellore Institute of Technology<br>
Vellore, 632014
</address>
<br>
<center>
<address>
Abhishek Kushwaha<br>
```

```
76, Beni Banerjee Avenue<br>
Kolkata, 700031
</address>
</center>
<br><br>
<!-- e. Print ten acronyms and abbreviations of your choosing,
each separated by
two lines. Specify the data that the abbreviations and acronyms
represent-->

<abbr title="Abbrevetions"></abbr>
<br>
<abbr title="Python">py</abbr>
<br>
<br>
<abbr title="Golang">go</abbr>
<br>
<br>
<abbr title="Rust">rs</abbr>
<br>
<br>
<abbr title="TypeScript">ts</abbr>
<br>
<br>
<acronym title="JavaScript">js</acronym>
<br>
<br>
<acronym title="Vellore Institute of Technology">VIT</acronym>
<br>
<br>
<acronym title="Network Time Protocol">NTP</acronym>
<br>
<br>
<acronym title="Solid State Drive">SSD</acronym>
<br>
<br>
<acronym title="Portable Document Format">PDF</acronym>
<br><br>
</body>
</html>
```

Output:

The screenshot shows a Microsoft Edge browser window with the URL `file:///D/Silent_Observer/Development/HTML_For_VIT/HTML_Assignments/Lab Assignment - 1/Q3.html`. The page content includes two sections: "Unalphabetized list" and "Alphabetized list".

Unalphabetized list

```
Acer1  
Predator9  
Dell3  
Microsoft6  
MSI7  
Lenovo5  
Apple2  
Huawai4  
Samsung10  
Nokias
```

Alphabetized list

```
Acer  
Apple  
Dell  
Huawai  
Lenovo  
Microsoft  
MSI  
Nokia  
Predator  
Samsung
```

Types of CyberSec attacks.

- I. Sql Injection
- II. Man In the Middle
- III. Spoofing
- IV. Tab mapping

Steps for Pentesting

- o Planning and Reconnaissance
- o Scanning
- o Gaining Access
- o Maintaining Access
- o Analysis

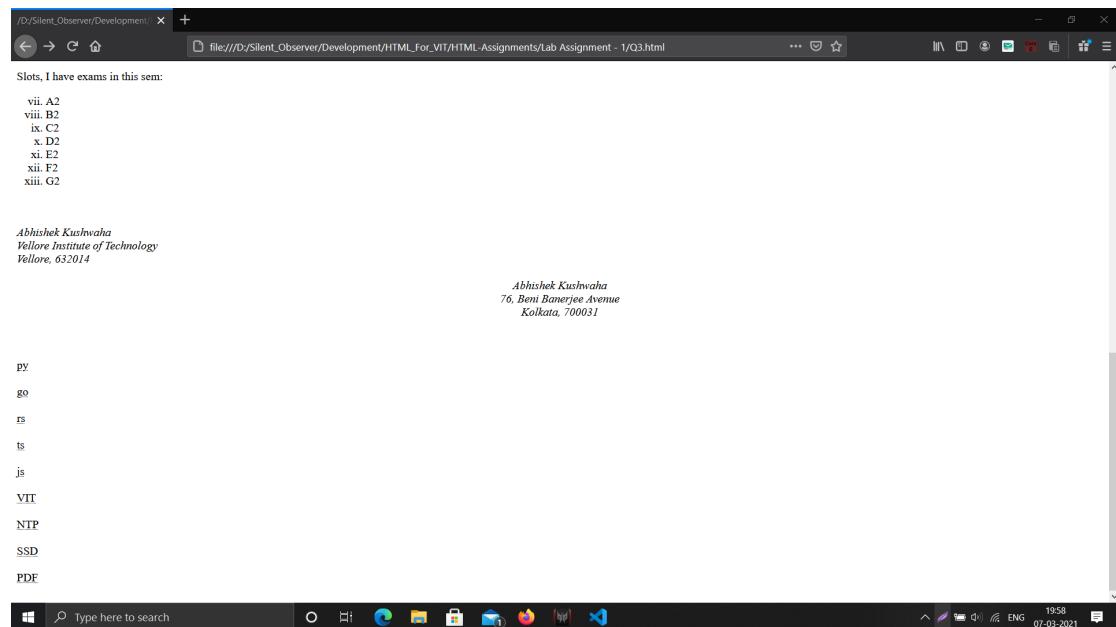
Slots, I have exams in this sem:

- vii. A2
- viii. B2
- ix. C2
- x. D2
- xi. E2
- xii. F2
- xiii. G2

*Abhishek Kuchwaha
Vellore Institute of Technology
Vellore, 632014*

*Abhishek Kuchwaha
76, Beni Banerjee Avenue
Kolkata, 700031*

```
py  
go  
rs  
ts
```

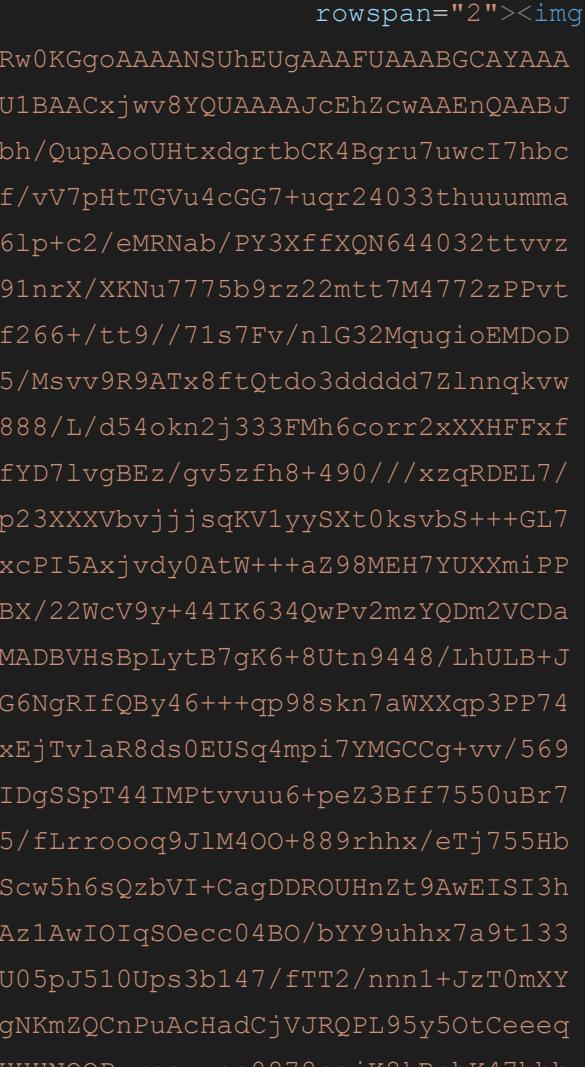


4) HTML TABLES

| Purchased Equipments (June, 2006) | | | |
|-----------------------------------|---|--------------------------------------|-----------|
| Item Num# | Item Picture | Item Description | Price |
| | | Shipping Handling, Installation, etc | Expense |
| 1. |  | IBM Clone Computer. | \$ 400.00 |
| | | Shipping Handling, Installation, etc | \$ 20.00 |
| 2. |  | 1GB RAM Module for Computer. | \$ 50.00 |
| | | Shipping Handling, Installation, etc | \$ 14.00 |

Code:

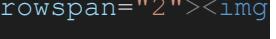
```
<html>
<head>
<title>Q5</title>
<style>
table{
border: 4px solid grey;
border-spacing: 4px;
}
th {
border: 2px solid grey;
}
td{
border: 2px solid grey;
font-family: Garamond, serif
}
</style>
</head>
<body>
<center><table>
<tr>
```

```
<th colspan="4"><b>Purchased Equipments (June, 2006)</b></th>
</tr>
<tr>
<td rowspan="2"><b>Item Num#</b></td>
<td rowspan="2"><b>Item Picture</b></td>
<td><b><center>Item Description</center></b></td>
<td><b><center>Price</center></b></td>
</tr>
<tr>
<td><b>Shipping Handling, Installation, etc</b></td>
<td><b>Expense</b></td>
</tr>
<tr>
<td rowspan="2">1.</td>
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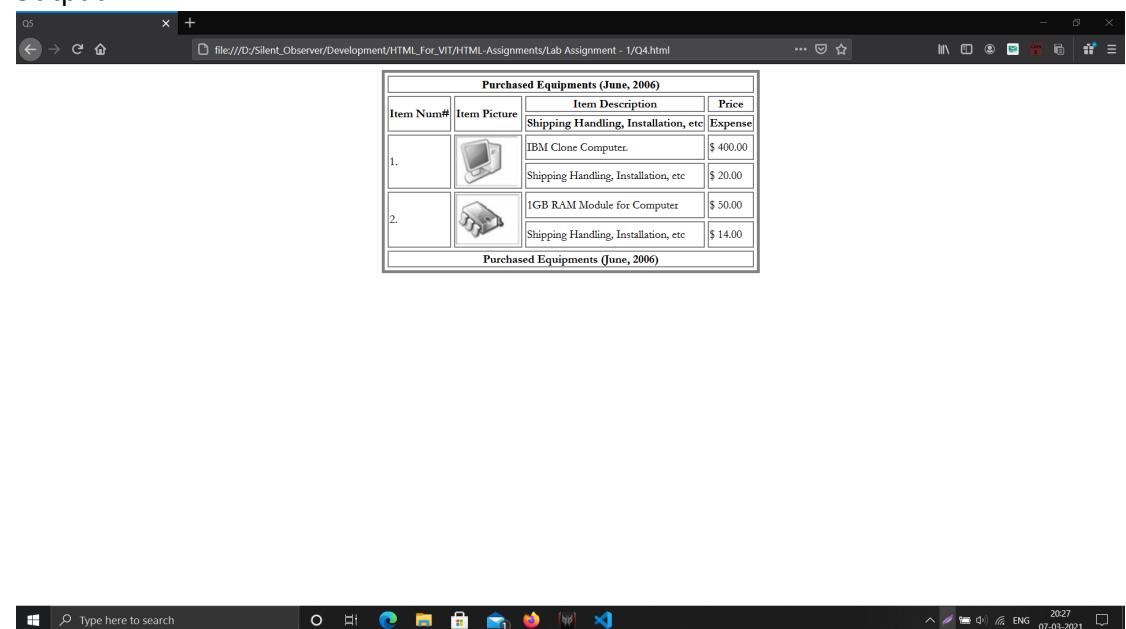
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|--|-----------------------------|----------|
| | 1GB RAM Module for Computer | \$ 50.00 |
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Output:

5) Design the following Form

The World of Fruit

Fruit Survey

Name

Address

Email

How many pieces of fruit
do you eat per day?

0
 1
 2
 More than 2

My favourite fruit

Apple
Banana
Plum
Pomegranate

Would you like a
brochure?

Submit

Code:

```
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    font-size: 16;
}
table{
    font-size: 15;
}
.formRounded input[type="submit"] {
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    border-bottom-left-radius: 3px;
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border-bottom-style: solid;
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border-left-width: 1px;
border-right-color: #b3b3b3;
border-right-style: solid;
border-right-width: 1px;
border-top-color: #b3b3b3;
border-top-left-radius: 3px;
border-top-right-radius: 3px;
border-top-style: solid;
border-top-width: 1px;
height: 30px;
padding-left: 10px;
}
</style>
</head>
<body>
<form action="#" style="width:390px; background-color: #bfbfbf;" class="formRounded">
<div style="border-style: solid;">
<h1 style="text-align:center; font-size: 20px;">&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbspThe World of Fruit</h1>
<div style="background-color: #f2f2f2;">
<h3 style="text-align: center;">&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbspFruit Survey</h3>
<table width="300px">
<tr>
<td>
&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp&ampnbsp
<label for="name">Name</label>
</td>
<td>
<input type="text" name="name" maxlength="40" size="20" " >
</td>
</tr>

```

```
<tr>
<td>
    &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<label for="address">Address</label>
</td>
<td>
<input type="text" name="address" maxlength="40" size="20">
</td>
</tr>
<tr>
<td>
    &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<label for="email">Email</label>
</td>
<td>
<input type="email" name="email" maxlength="40" size="20" >
</td>
</tr>
<tr>
<td>
<label for="fp">How many pieces of fruit do you eat per day?</label>
</td>
<td>
<br>
<input type="radio" name="fp">0 <br>
<input type="radio" name="fp">1 <br>
<input type="radio" name="fp">2 <br>
<input type="radio" name="fp">More than 2 <br>
</td>
</tr>
<tr>
<td>
<label for="ff">My favourite fruit</label>
</td>
<td>
<br>
<select multiple size="4">
<option value="apple">Apple</option>
<option value="banana">Banana</option>
```

```
<option value="plum">Plum</option>
<option value="pomegranate">Pomegranate</option>
<option value="apple1">Apple1</option>
<option value="banana1">Banana1</option>
<option value="plum1">Plum1</option>
<option value="pomegranate1">Pomegranate1</option>
</select>
<br>
</td>
</tr>
<tr>
<td>
<br>
<label for="b">Would you like a brochure?</label>
</td>
<td>
<br>
<input type="checkbox" name="b">
</td>
</tr>
<tr>
<td colspan="2" style="text-align:center;">
<br>
<input type="submit" value="submit" style="width: 75px; height: 25px; margin: 0px 0px 0px 80px">
<br>
<br>
</td>
</tr>
</table>
</form>
</div>
</div>
</body>
</html>
```

Output:

The screenshot shows a Microsoft Edge browser window with the title bar reading "/D/Silent_Observer/Development/" and the address bar showing "file:///D/Silent_Observer/Development/HTML_For_VIT/HTML_Assignments/Lab Assignment - 1/Q5.html". The page content is a form titled "The World of Fruit" with the section "Fruit Survey". It includes fields for Name, Address, and Email. A question asks "How many pieces of fruit do you eat per day?" with options 0, 1, 2, or More than 2. A dropdown menu for "My favourite fruit" lists Apple, Banana, Plum, and Pomegranate. A checkbox question asks "Would you like a brochure?". A "submit" button is at the bottom.



6) Create a stylesheet named styleme.css to improve the appearance of your About Me page (Q.No:2).

- Change the color of at least two elements
- Change the font properties (family, size, weight, or style) of at least two elements. Some standard fonts: Arial, Arial Black, Verdana, Trebuchet MS, Georgia, Tahoma, Courier New, Times New Roman
- Change the background color, text alignment and borders

Code :

HTML Code :

```
<html>

<head>
    <title>aboutme</title>
    <meta charset="utf-8">
        <meta name="viewport" content="width=device-width,
initial-scale=1">
    <link rel="stylesheet" href="Q6.css">
</head>

<body>
    <!--a) Your name in the top of the page in large text and
your address in smaller text-->
    <!--Name-->
    <div class="Intro">
        <div style="font-size:50;">Abhishek Kushwaha</div>
        <br>
        <!--Address-->
        <div style="font-size:20;">76, Beni Banerjee Avenue
Kolkata - 700031</div>
    </div>
    <!--b) A description of you in <= 2 sentences. Emphasize
important word(s) in bold.-->
    <div>
        <br>
        Hello, this is Abhishek Kushwaha, an aspiring <b>ethical
hacker</b> and <b>technology enthusiast</b>!
```

```
<br>
    I live in <b>Kolkata</b> and am currently studying in
<b>Vellore Institute of Technology, VIT</b>
</div>
<br>
<br>
    <!--c. A list of classes you are taking right now with a
simple description of each
with interesting subjects in marvellous colours.-->
<div>
    I am currently taking the following classes in my current
semester:
<ol>
    <li>
        <div style='color: red'>Network Security</div>
    </li>
    Due to my keen interest in CyberSec, I took up this
subject this semester and am planning to work on some
            wonderful research article on an interesting topic
<br>related to the subject.
    This subject mostly deals with the different security
practices and attacks.
    <li>
        <div style='color: green'>Java</div>
    </li>
    Java is one of our compulsory electives, and I am
really looking forward to adding a new language to my
            arsenal.
    This subject mostly deals with Programming paradigms
and OOPS concepts.
    <li>
        <div style='color: blue'>Internet and Web
Programming</div>
    </li>
    I am very passionate on building stuff that is
scalable, distributable and web based.
    Hence I took up this subject to explore my passion.
    This subject deals with making basic web application
that involve frontend and backend.
</ol>
```

```
</div>
    <!--d.Your 3 favourite movies, books, or TV shows, in order.
Make at least one
link to an interesting site about that TV show/movie/book-->
<div>
    My favourite books are the following:
    <ol>
        <li>
            <div style='color: Orange'>Hacking, the Art of
Exploitation</div>
        </li>
            Hacking: The Art of Exploitation (ISBN 1-59327-007-0)
is a book by Jon "Smibbs" Erickson about computer
            security and network security. It was published by No
Starch Press in 2003, with a second edition in 2008.
            All of the examples in the book were developed,
compiled, and tested on Gentoo Linux.
            <div>
                <a
href='https://drive.google.com/file/d/1ktDdquq17dIfybx4HTeR0QILWc
7KHFqW/view' target="_blank"
                    rel="noopener noreferrer">Read It
Here!</a>&nbsp;&nbsp;&nbsp;&nbsp;<a
href='https://www.amazon.in/Hacking-Art-Exploitation-Jon-Erickson
/dp/1593271441/ref=sr_1_1?dchild=1&keywords=Hacking+2nd+Edition+th
e+art+of+exploitation&qid=1615118893&sr=8-1'
                    target="_blank" rel="noopener noreferrer">Buy
it Here!</a>
            </div>
            <br>
            <li>
                <div style='color: Magenta'>Building
Microservices, Fine grained Systems</div>
            </li>
                Distributed systems have become more fine-grained as
organizations shift from code-heavy monolithic
                    applications to smaller, self-contained
microservices. But developing these systems brings its own set of
                    problems. With lots of examples and practical advice,
```

this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building, managing, and evolving microservices architectures.

<div>

Read It Here! Buy it Here!

</div>

<div style='color: #03cfad'>The Art of Intrusion</div>

Kevin Mitnick, the world's most celebrated hacker, now devotes his life to helping businesses and governments combat data thieves, cybervandals, and other malicious computer intruders. In his bestselling *The Art of Deception*, Mitnick presented fictionalized case studies that illustrated how savvy computer crackers use "social engineering" to compromise even the most technically secure computer systems. Now, in his new book, Mitnick goes one step further, offering hair-raising stories of real-life computer break-ins—and showing how the victims could have prevented them.

<div>

Read It Here! <a href='https://www.amazon.in/Art-Intrusion-Exploits-Intruders-Dece'

```
ivers/dp/0764569597'
                                target="_blank" rel="noopener noreferrer">>Buy
it Here!</a>
                </div>
                <br>
            </ol>
        </div>
        <!--e. Two images that represent you when you're happy and
sad.-->
        <!--Happy Image-->
        <div>
            <div class="row">
                <div class="column">
                    <div style="text-align:left; margin: 0px 0px 0px
250px;">
                        Happy Me
                    </div>
                    <div style="text-align:right; margin: 0px 250px
0px 0px;">
                        Sad Me
                    </div>
                <div>
                    <img style="float: left; margin: 0px 0px 50px
50px;" alt="Happy Picture"
                        width="500" height="300" />
                    <img style="float: right; margin: 0px 50px
50px 0px;" alt="Sad Picture" width="500"
height="300" alt="Happy Picture" />
                </div>
            </div>
        <br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
```

```
br>
        <!--f. Something about one of your neighbours
(people sitting next to you, make it interesting as well-->
        The biggest regret right now I have is that I
have an exam tomorrow, and I was too lazy to complete my
        assignment before -_-_
        This is me now 😢(I hope I can make it in time.)
        And this is for Q8, my heart is literally
thorbbing away.

<br>
<br>

<center>
</center>
<br>
<br>

<!--g.Describe your skill level in programming
languages.-->
<div class="programming">
        My programming skills are something like my
grades, I try improving every sem and then they end up
        like
                my new year resolutions, lost and
forgotten.<br>
        I prefer coding in the following languages:
<ol>
        <li>Python - This guy always has my back,
easiest to learn, and I have been doing this since
                class
                8.</li>
        <li>Golang - This sweet language helps me
to build scalable stuff with excellent
                performance(better
                than C++ sometimes), but takes a bit
long to develop compared to python.</li>
        <li>Rust - This beast is the most
scalable(better than C++ in terms of memory management and
                concurrency) and I am trying to learn
this for over two months now. Good for building
```

```
        applications and has control over
each and every grain of performance and optimization.</li>
    </ol>
</div>
</div>
<br>
</body>

</html>
```

CSS Code:

```
*   img {
    border-radius: 8px;
    border: 5px solid #555;
}

.programming {
    font-family: cursive;
    background-color: aqua;
}

.Intro{
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    background-image:
url("https://png.pngtree.com/thumb_back/fw800/back_pic/00/11/26/5
356376b0b393f6.jpg");
    text-align: center;
}
body{
    background-image:
url("https://wallpaperaccess.com/full/817598.jpg");
}
```

Output:

aboutme

file:///D:/Silent_Observer/Development/HTML_For_VIT/HTML-Assignments/Lab Assignment - 1/Q6.html

Abhishek Kushwaha

76, Beni Banerjee Avenue Kolkata - 700031

Hello, this is Abhishek Kushwaha, an aspiring **ethical hacker** and **technology enthusiast**!
I live in **Kolkata** and am currently studying in **Vellore Institute of Technology, VIT**

I am currently taking the following classes in my current semester:

1. **Network Security**
Due to my keen interest in CyberSec, I took up this subject this semester and am planning to work on some wonderful research article on an interesting topic related to the subject. This subject mostly deals with the different security practices and attacks.
2. **Java**
Java is one of our compulsory electives, and I am really looking forward to adding a new language to my arsenal. This subject mostly deals with Programming paradigms and OOPS concepts.
3. **Internet and Web Programming**
I am very passionate on building stuff that is scalable, distributable and web based. Hence I took up this subject to explore my passion. This subject deals with making basic web application that involve frontend and backend.

My favourite books are the following:

1. **Hacking: the Art of Exploitation**
Hacking: The Art of Exploitation (ISBN 1-59327-007-0) is a book by Jon "Smeibbs" Erickson about computer security and network security. It was published by No Starch Press in 2003, with a second edition in 2008. All of the examples in the book were developed, compiled, and tested on Gentoo Linux.
[Read It Here!](#) [Buy it Here!](#)
2. **Building Microservices, Fine grained Systems**
Distributed systems have become more fine-grained as organizations shift from code-heavy monolithic applications to smaller, self-contained microservices. But developing these systems brings its own set of problems. With lots of examples and practical advice, this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building, managing, and evolving microservices architectures.
[Read It Here!](#) [Buy it Here!](#)
3. **The Art of Intrusion**
Kevin Mitnick, the world's most celebrated hacker, now devotes his life to helping businesses and governments combat data thieves, cybervandals, and other malicious computer intruders. In his bestselling *The Art of Deception*, Mitnick presents fictionalized case studies that illustrated how savvy computer crackers use "social engineering" to compromise even the most technically secure computer systems. Now, in his new book, Mitnick goes one step further, offering hair-raising stories of real-life computer break-ins and showing how the victims could have prevented them.
[Read It Here!](#) [Buy it Here!](#)

Happy Me

file:///D:/Silent_Observer/Development/HTML_For_VIT/HTML-Assignments/Lab Assignment - 1/Q6.html

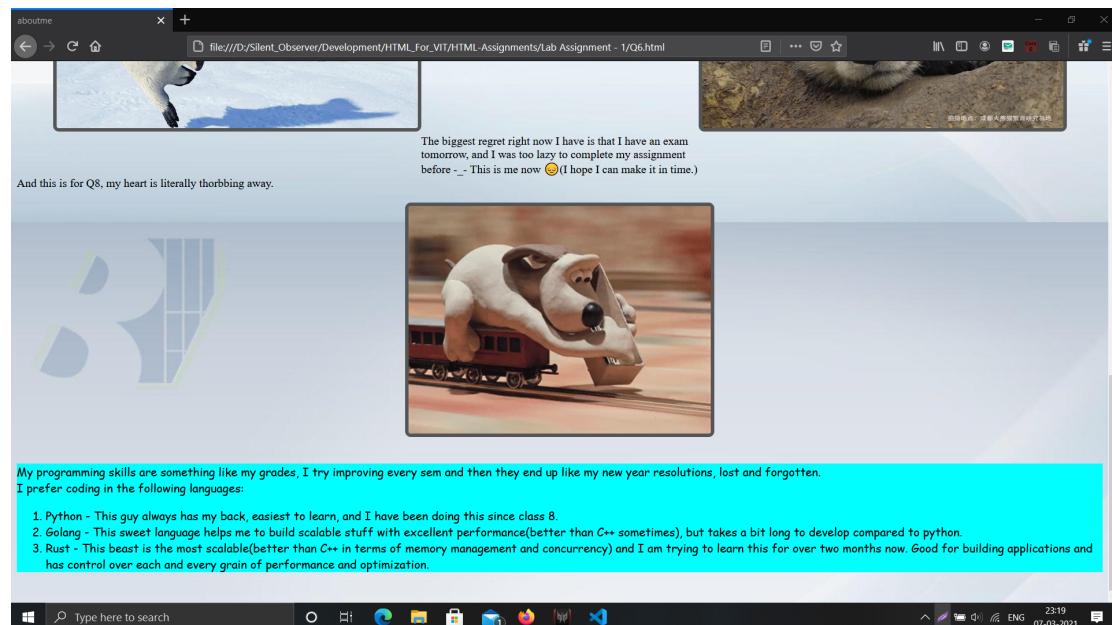
Happy Me

Sad Me

The biggest regret right now I have is that I have an exam tomorrow, and I was too lazy to complete my assignment before -_- This is me now 😞 (I hope I can make it in time.)

And this is for Q8, my heart is literally throbbbing away.

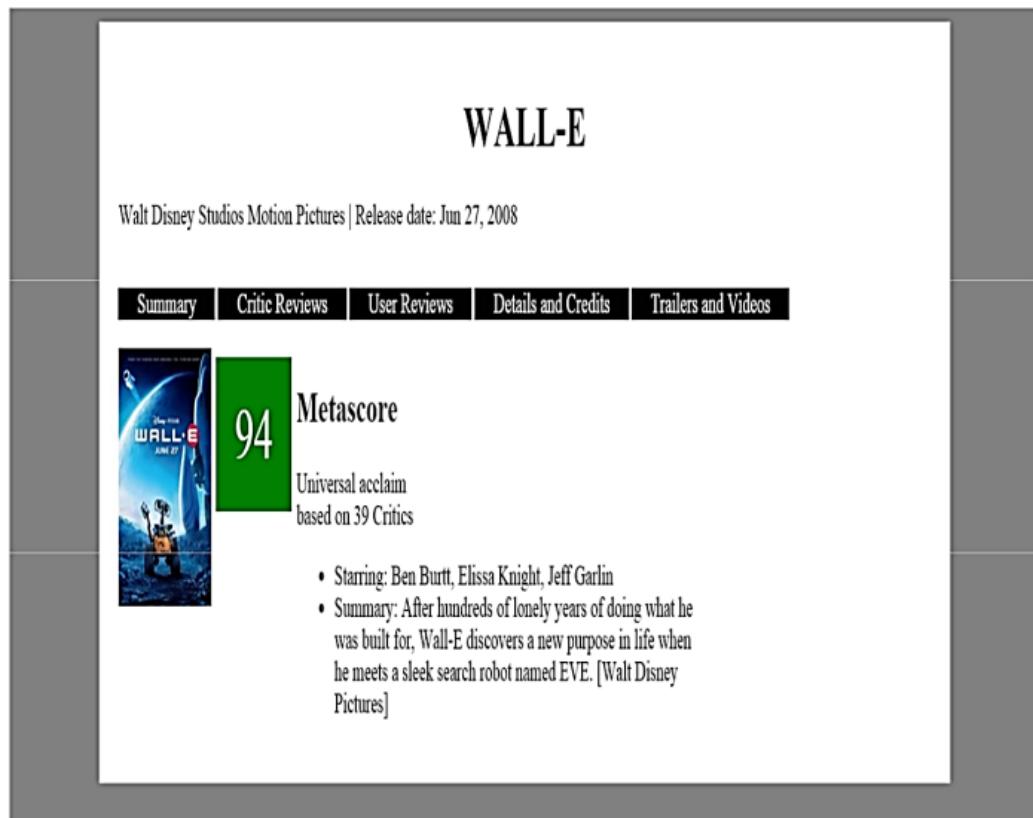
Throbbing Away



7) Write the **CSS code** necessary to recreate the following appearance on-screen, exactly as shown.

- The menu items (*Summary to Trailers and Videos*) are white text on a black background. There is 20px space between the words and the right and left sides of their black boxes. There is 3px of blank space to the right of each.
- The score information should be 50% wide.
- The movie rating has a green background and white text. The number is in 30pt font. There is 20px space between the number and the edges of the green background. There is 5px blank space around the green background.

- The background color of the page is gray but the background color of the area containing everything is white. The white area is 80% wide and centered. There is 20px of space between the edge of the white background and everything inside it.



HTML Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Question7</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,
initial-scale=1">
<link rel="stylesheet" href="Q7.css">
</head>
<body>
<div class = "main">
<header>
    <h1>WALL-E</h1>
</header>
<p>Walt Disney Studios Motion Pictures | Release Date: Jun 27,
```

```
2008</p>
<div class ="menu">
<ul>
    <li><a href="#">Summary</a></li>
    <li><a href="#">Critic Reviews</a></li>
    <li><a href="#">User Reviews</a></li>
    <li><a href="#">Details and Credits</a></li>
    <li><a href="#">Trailers and Videos</a></li>
</ul>
</div>
<p></p>
<p></p>
<div>
    

    <div class= "rating">94</div>
    <div class="clearfix">
        <h3>Metascore</h3>
        <p>Universal acclaim based on 39 critics</p>
        <ul>
            <li>Starring: Ben Burtt, Elissa Knight, Jeff Garlin</li>
            <li>Summary: After hundred of lonely years of doing what he was built for, Wall-e discovers a new purpose in life when he meets a sleek search robot named EVE.[Walt Disney Pictures]</li>
        </ul>
    </div>
</div>
</body>
</html>
```

CSS Code:

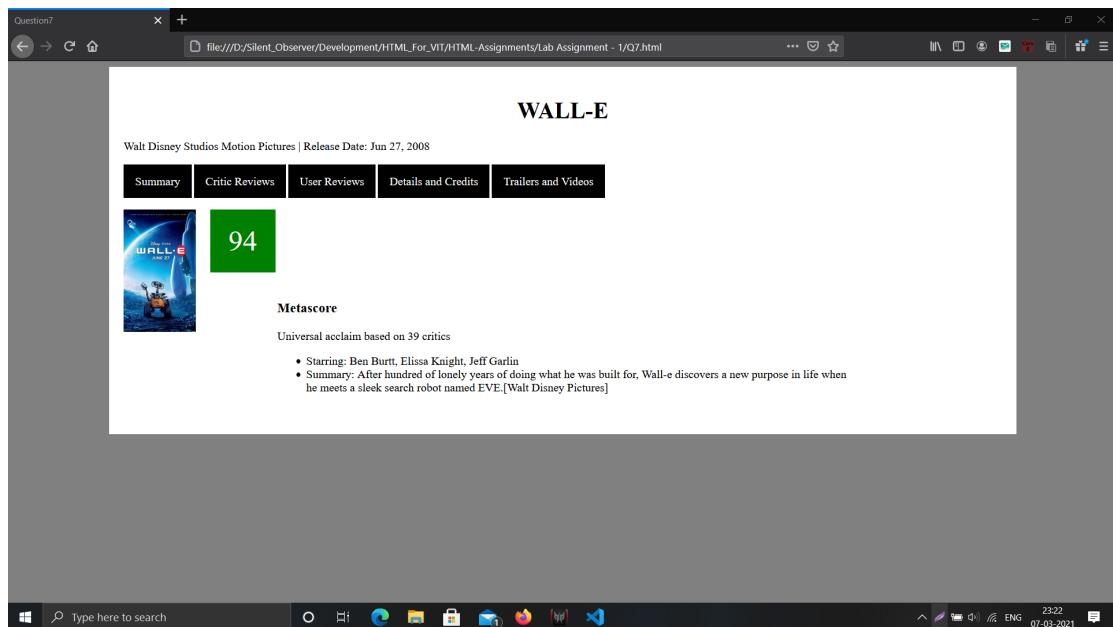
```
body{
    background-color: grey;
}

header{
    background-color: white;
    text-align: center;
}
```

```
.main {  
    width: 80%;  
    background-color: white;  
    padding: 20px;  
    margin: auto;  
}  
  
.menu ul {  
    list-style-type: none;  
    margin: 0;  
    padding: 0;  
    overflow: auto;  
    background-color:white;  
}  
  
.menu li {  
    float: left;  
    border-right: 3px;  
    margin-right: 3px;  
    border-color: white;  
}  
  
.menu li a {  
    display: inline-block;  
    text-align: center;  
    color: white;  
    background-color: black;  
    padding: 14px 16px;  
    text-decoration: none;  
}  
  
.menu li a:hover {  
    background-color: #111;  
}  
  
.img1 {  
    float: left;  
}  
  
.rating{  
    width: 50px;  
    background-color: green;  
    border-spacing: 5px;
```

```
color: white;  
text-align:center;  
font-size: 30pt;  
margin-left: 120px;  
padding: 20px;  
}  
  
.clearfix{  
width:65%;  
padding: 20px;  
margin: auto;  
}
```

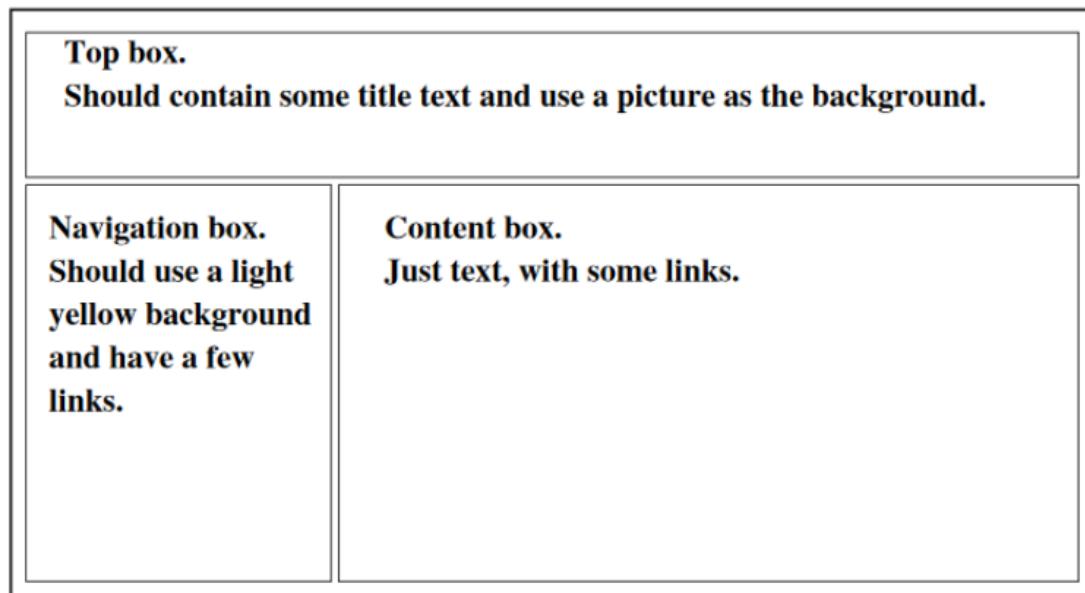
Output:



- 8) Design a presentation style for your Web pages using an external CSS file. Use a presentation style with three boxes as suggested in below Figure. Use <div> tags with different classes to implement the boxes.

Modify the Web pages to use this presentation style and verify that it works.

Change the style so that links gets enhanced (bold, color and/or background) when the mouse pointer hovers above it.



HTML Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Question8</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,
initial-scale=1">
<link rel="stylesheet" href="Q8.css">
</head>
<body>

<header>
    <h2>A Title used to represent this Webpage</h2>
</header>

<section>
    <nav>
```

```
<ul>
    <li><a href="https://en.wikipedia.org/wiki/London">London</a></li>
    <li><a href="https://en.wikipedia.org/wiki/Paris">Paris</a></li>
    <li><a href="https://en.wikipedia.org/wiki/Tokyo">Tokyo</a></li>
</ul>
</nav>

<article>
    <h1>Welcome to this webpage</h1>
    <p>Here is a paragraph containing some text. </p>
        <p>Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.</p>
    <p>Here are some dummy links: </p>
    <ul>
        <li><a href = "https://en.wikipedia.org/wiki/Association_football">1. Soccer</a></li>
        <li><a href = "https://en.wikipedia.org/wiki/Cricket">2. Cricket</a></li>
        <li><a href = "https://en.wikipedia.org/wiki/Baseball">3. Baseball</a></li>
    </ul>
</article>
</section>

</body>
</html>
```

CSS Code:

```
* {
    box-sizing: border-box;
}

body {
    font-family: Arial, Helvetica, sans-serif;
}

a:link {
    color: black;
}

/* mouse over link */
a:hover {
    color: red;
    font-weight: bold;
    background-color: yellow;
    padding: 20px;
}

header {
    background-image: url("paper.jpg");
    background-color: #666;
    padding: 30px;
    text-align: center;
    font-size: 35px;
    color: black;
}

nav {
    float: left;
    width: 30%;
    height: 700px;
    background: lightyellow;
    padding: 20px;
}

nav ul {
```

```
list-style-type: none;
padding: 10px;
display: flex;
flex-direction: column;
justify-content: space-around;
flex-wrap: nowrap;
}

nav li{
    padding-bottom: 50px
}

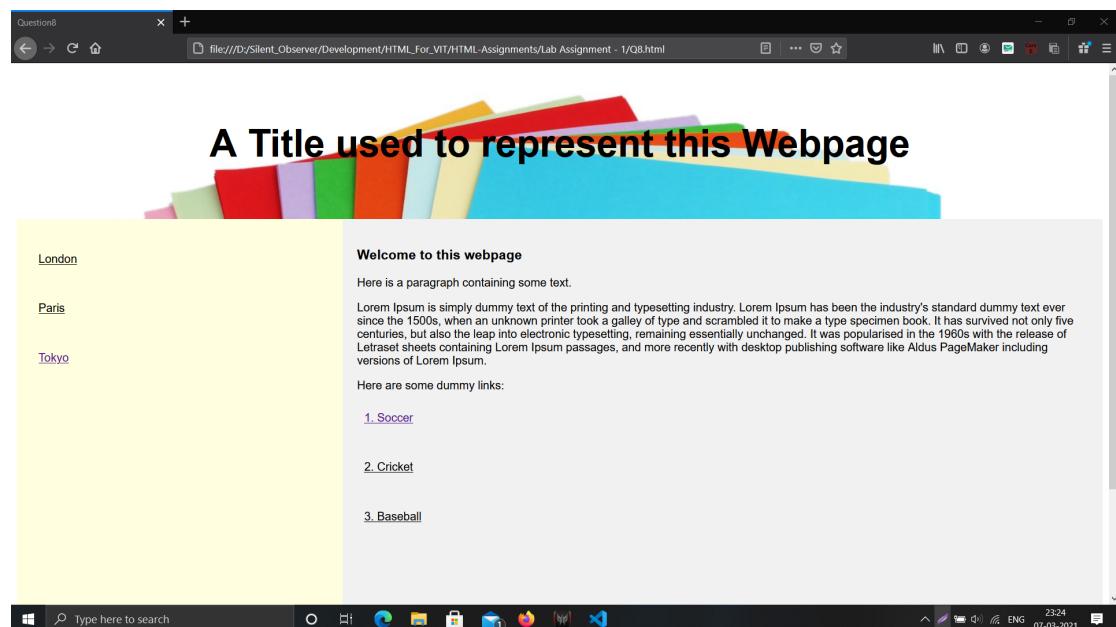
article {
    float: left;
    padding: 20px;
    width: 70%;
    background-color: #f1f1f1;
    height: 700px;
}
article ul {
    list-style-type: none;
    padding: 10px;
    display: flex;
    flex-direction: column;
    justify-content: space-around;
    flex-wrap: nowrap;
}
article li{
    padding-bottom: 50px
}

section::after {
    content: "";
    display: table;
    clear: both;
}

footer {
    background-color: #777;
    padding: 10px;
```

```
text-align: center;  
color: white;  
}  
  
@media (max-width: 600px) {  
    nav, article {  
        width: 100%;  
        height: auto;  
    }  
}
```

Output:



9) Multimedia

Copy some multimedia files to your Web folder, at least one picture and one video.

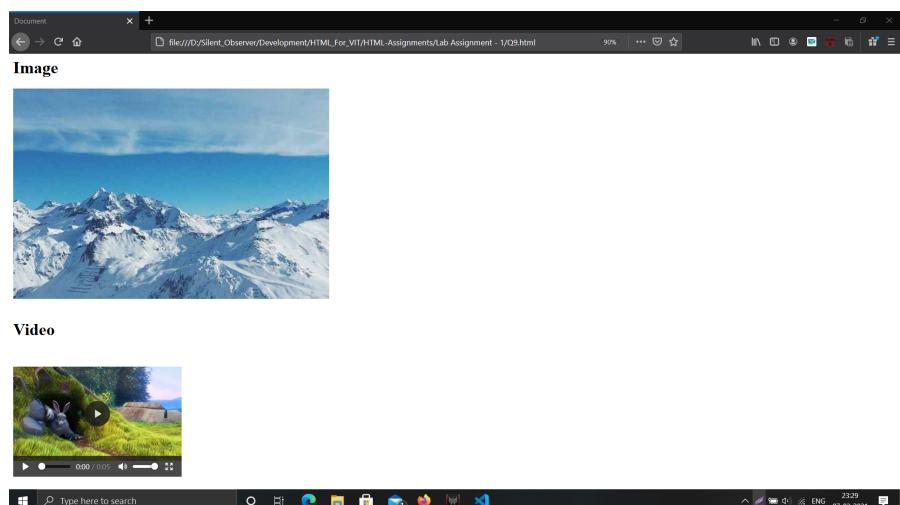
- i. Add an image using canvas in one of your pages.
- ii. Add a video in one of your pages.

(Hint: Check out the tags '<video>', '<embed>', and '<object>' used in the page variably.)

Code:

```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Image</h1>
    <img src = "https://www.w3schools.com/w3js/img_snowtops.jpg">
    <br><br>
    <h1>Video</h1>
    <video width="320" height="240" controls>
        <source src="video.mp4" type="video/mp4">
        Your browser does not support the video tag.
    </video>
</body>
</html>
```

Output:



10) Write a program to demonstrate the concept of HTML Image mapping element.

- i. Add an image of the cricket playground.
- ii. Use image mapping to give the details about the various fielding positions. (e.g. Gully, slip etc., - write description about it and your favourite fielders at that point)

Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Cricket Position</title>
    <style>
        .center
        {
            display:block;
            margin-left:auto;
            margin-right:auto;
            width:50%;

        }
    </style>
</head>
<body>
    <center><h1>Positions in Cricket Field</h1></center>
    

    <map name="fieldmap">
        <area shape="circle" coords="500,297,40" alt="slip"
href="slip.html">
        <area shape="circle" coords="501,440,40" alt="cover"
href="cover.html">
        <area shape="circle" coords="577,428,40" alt="mid-wicket"
href="midwicket.html">
    </map>
</body>
```

midwicket.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Midwicket Position</title>
</head>
<body>
    <h1 align='center'>Midwicket Position</h1>
    <hr>
    <p>
        This position is played when we want to play someone on
        midwicket.
    </p>
</body>
```

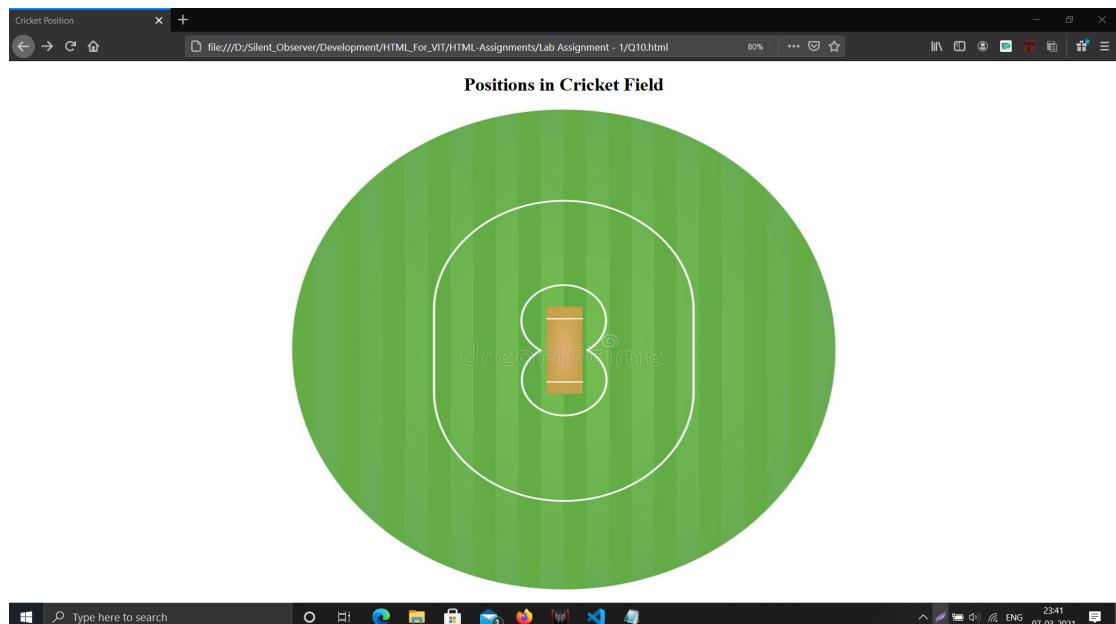
cover.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Cover Positions</title>
</head>
<body>
    <h1 align='center'>Cover Position</h1>
    <hr>
    <p>
        This position is played when we want to decrease someone's
        runs
    </p>
</body>
```

slip.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Slip Positions</title>
</head>
```

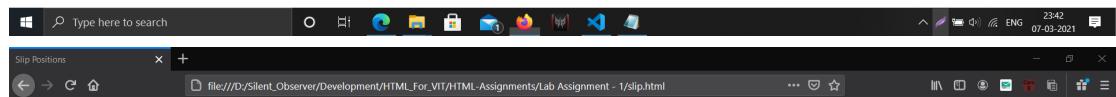
```
<body>
    <h1 align='center'>The Great Slip Position</h1>
    <hr>
    <p> The slip position is the one where most test matches are
played.
    </p>
</body>
```

Output:



Cover Position

This position is played when we want to decrease someone's runs



The Great Slip Position

The slip position is the one where most test matches are played.



The Great Slip Position