

Lab Session 04: Working with Cascading Style Sheets (CSS)**Date of the Session: 09/06/2021****Time of the Session: 11:40 AM to 01:00 PM****Title of the Program: Design your Web Pages using Different Types of CSS****Pre-Lab Task: Answer the following before entering into lab**

1) List and describe the CSS font properties.

A) Some of the main CSS font properties are as follows:

- font-style: Specifies the font style (normal, italic, oblique, initial, inherit)
- font-variant: Specifies the font variant (normal, small-caps, initial, inherit)
- font-weight: Specifies the font weight (normal, lighter, bold, bolder, initial, inherit)
- font-size: Specifies the font size and the line height
- font-family: Specifies the font family

2) What are the various categories of CSS selectors?

A) There are generally 5 categories of CSS selectors:

1. CSS Universal Selector: It selects all the elements on a webpage.
2. CSS Element Selector: It tries to match the HTML elements having the same name.
3. CSS ID Selector: It helps to match the ID given to a specific element. It is declared by using a hash(#) followed by ID.
4. CSS Class Selector: It helps to match the class name specified to any element. It is declared by using a dot followed by classname.
5. CSS Attribute Selector: It styles content according to the attribute and the attribute value mentioned in the square brackets.

3) What are different ways to insert CSS in html?

A) CSS can be inserted in HTML documents in 3 ways:

1. Inline: by using the style attribute inside HTML elements.
2. Internal: by using a <style> element in the <head> section.
3. External: by using a <link> element to link to an external CSS file.

4) Why CSS margins are used?

A) The CSS margin properties are used to create space around elements, outside of any defined borders.

5) What are the different parts in CSS box model?

A) The different parts in CSS box model are Content, Padding, Border, Margin.

6) Write the syntax for CSS background-repeat.

A) The background-repeat property sets if/how a background image will be repeated.
background-repeat: repeat | repeat-x | repeat-y | no-repeat | initial | inherit;

In-Lab Task

1. Write a CSS program by using different font, styles. In the style definition you define how each selector should work. Then, in the body of your pages, you refer to these selectors to activate the styles.

This header is red

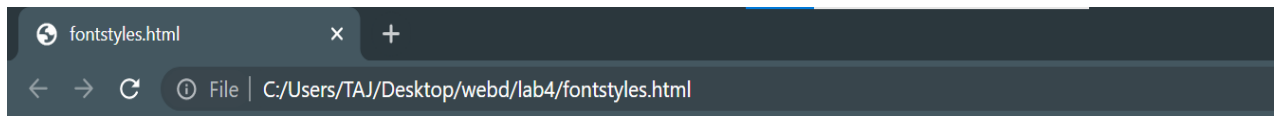
This header is blue

This text is normal

Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title></title>
  <style type="text/css">
    #red{
      color: red;
      text-decoration: underline;
      font-weight: bolder;
    }
    #blue{
      color: blue;
      font-weight: bolder;
      font-size: small;
    }
    #normal{
      font-size: 20px;
    }
  </style>
</head>
<body>
<p id="red">The header is red</p>
<p id="blue">The header is blue</p>
<p id="normal">The text is normal</p>
</body>
</html>
```

Output:



The header is red

The header is blue

The text is normal

- Write a CSS program with the following requirements: Set a background image for both the page and single elements on the page. As well Control the repetition of the image with the background-repeat property

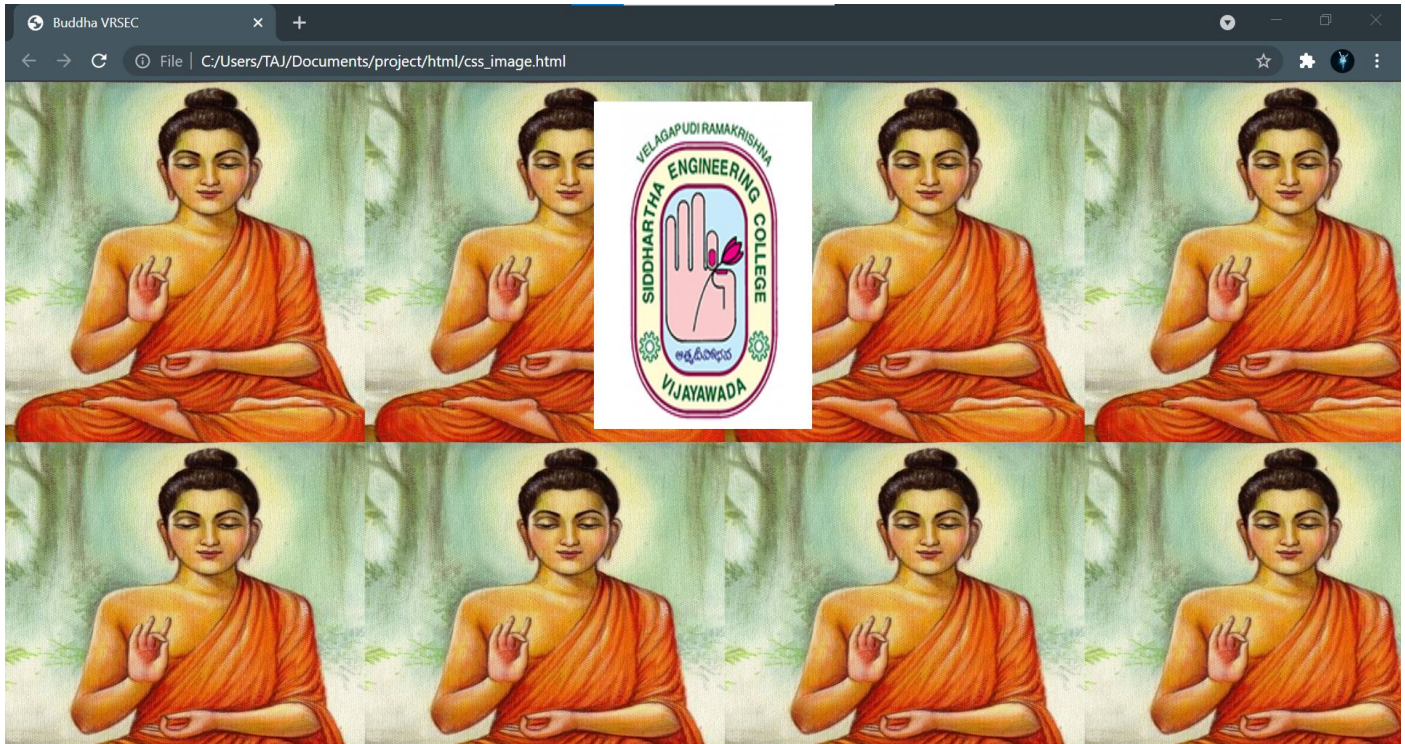


Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Buddha VRSEC</title>
  <style type="text/css">
    body{
      background-image: url(buddha.jpg);
      background-size: 20%;
    }
    img{
      display: inline;
      margin: 10px;
    }
  </style>
</head>
```

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

Output:



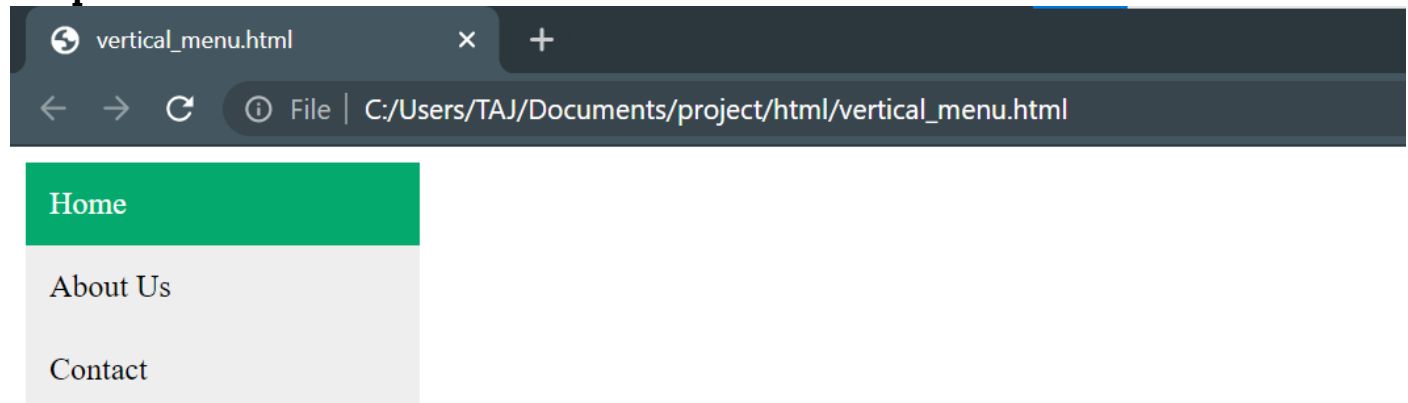
3. a) Design a Simple Website using Vertical Menus



Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>vertical menu</title>
  <style type="text/css">
    .menu{
      width: 200px;
```

```
    }  
    .menu a{  
        background-color: #4ecca3;  
        text-decoration: none;  
        display: block;  
        padding: 10px;  
        color: #232931;  
    }  
    .menu a:hover{  
        background-color: #232931;  
        color: #eeeeee;  
    }  
}  
</style>  
</head>  
<body>  
<div class="menu">  
    <a href="">Home</a>  
    <a href="">About Us</a>  
    <a href="">Contact</a>  
</div>  
</body>  
</html>
```

Output:

b) Design a college website using horizontal menus and multi column layout of CSS

VR SIDDHARTHA ENGINEERING COLLEGE

Resize the browser window to see the responsive effect.

[Personal Details](#) [Academic Details](#) [Physical Details](#) [Student Search](#) [Employee Details](#)

Column

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Column

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Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>VRSEC website</title>
  <style type="text/css">
    body{
      margin: 0;
      padding: 0;
    }
    .header{
      text-align: center;
      background-color: #CDCDCC;
      padding: 20px;
    }
    ul{
      list-style-type: none;
      background-color: #232931;
      padding: 0;
      margin: 0;
      overflow: hidden;
    }
    li{
      float: left;
```

```
    }
    li a{
        padding: 15px 20px;
        display: block;
        background-color: #232931;
        text-decoration: none;
        color: #eeeeee;
        text-align: center;
    }
    li a:hover{
        background-color: #777672;
    }
    .col1{
        width: 18%;
        float: left;
        padding: 10px;
    }
    .col2{
        width: 65%;
        float: left;
        padding: 10px;
    }
    .col3{
        width: 10%;
        float: right;
        padding: 10px;
    }
</style>
</head>
<body>
    <div class="header">
        <h1>VR SIDDHARTHA ENGINEERING COLLEGE</h1>
        <p>resize the browser window to see the responsive effect</p>
    </div>
    <div class="nav">
        <ul>
            <li><a href="">Personal Details</a></li>
            <li><a href="">Academic Details</a></li>
            <li><a href="">Physical Details</a></li>
            <li><a href="">Student Search</a></li>
            <li><a href="">Employee Details</a></li>
        </ul>
    </div>
    <div class="col1">
        <h1>Column 1</h1>
        <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod
tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute
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```

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

</div>

<div class="col2">

<h1>Column 2</h1>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

</div>

<div class="col3">

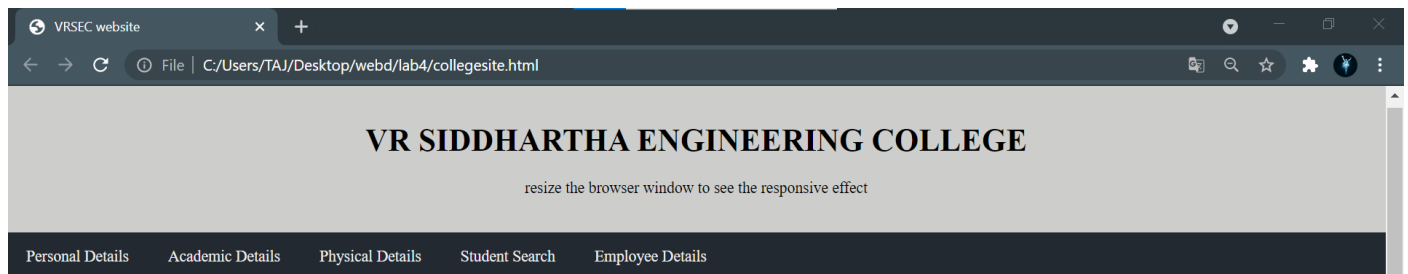
<h1>Column 3</h1>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

</div>

</body>

</html>

Output:**Column 1**

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Column 2

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Column 3

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4. Design the below given template using CSS Box Model

Latest News	Examinations Notice Board	Quick Links
<ul style="list-style-type: none"> ◦ AWS CLOUD LITERACY DAY ◦ Anblicks Ignite Program for 4/4 B.Tech Studetns ◦ 21-09-2019 i.e. Saturday is declared as holiday in lieu of 15-09-2019 to all students, faculty and s... ◦ Spot Admissions 2019: Vacancy Position for B.Tech First Year ◦ I/IV B.Tech I & II Semesters Academic Calendar for the year 2019-20 ◦ Department of IT is introducing M.Tech in Data Science for A.Y. 2019-20 <p>News archives »</p>	<ul style="list-style-type: none"> ◦ Exam fee notifications for B.Tech., III, VI & VII-Semesters and MCA V-Semester Nov-2019 ◦ Results of M.Tech IV-Semester (Project-viva) September-2019 ◦ CBCS B.Tech., V, VI, VII & VIII-Semesters (Subjects) Exam fee notification of Nov/Dec-2019 ◦ Timetable for B.Tech I to IV-Semesters (VR10 & VR14)-Supple- Oct-2019 ◦ Exam fee notification for B.Tech IV & V-Semesters Examinations - Nov-2019 <p>News archives »</p>	<ul style="list-style-type: none"> ◦ Institution Innovation Council ◦ Internal Sliding 2019 Notice ◦ Collaborative Labs ◦ Intellectual Property Policy ◦ Choice Based Credit System Guidelines ◦ Institutional Electives for 3/4 B.Tech Students ◦ Accreditation status ◦ NIRF ◦ Faculty Details ◦ Punishments for malpractice cases in exams ◦ Academic Calendar ◦ Governing Body Minutes ◦ NAAC Self Study Report ◦ AICTE Feedback (Faculty/Students)

Code:

```

<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>Box model example</title>
  <style type="text/css">
    body{ font-family: sans-serif; }
    .main{
      width: 80%;
      float: left;
      border: 1px solid black;
    }
    .news{
      width: 32%;
      float: left;
      border: 1px solid #2388BF;
      margin: 5px;
    }
    .exams{
      width: 32%;
      float: left;
      border: 1px solid #BF2F93;
      margin: 5px;
    }
    .links{
      width: 32%;

```

```

        float: left;
        border: 1px solid #20AF26;
        margin: 5px;
    }
    h3{
        margin: 0;
        color: white;
        padding: 5px;
    }
    ul{
        list-style-type: circle;
    }
    li{
        padding: 2px;
        color: #393e46;
    }
    a{
        text-decoration: none;
        float: right;
        padding: 10px;
    }
    .links ul li{
        line-height: 23px;
    }
</style>
</head>
<body>
<div class="main">
    <div class="news">
        <h3 style="background-color: #2388BF;">Latest News</h3>
        <ul>
<li>AWS CLOUD LITERACY DAY</li><br>
<li>Anblicks Ignite Program for 4/4 B.Tech Students</li>
<li>21-09-2019 i.e. Saturday is declared as holiday in lieu of 15-09-2019 to all students,
faculty and s...</li><br>
<li>Spot Admissions 2019: Vacancy position for B.Tech first year</li><br>
<li>I/IV B.Tech I & II Semesters Academic Calander for the year 2019-20</li><br>
<li>Department of IT is introducing M.Tech in Data Science for A.Y. 2019-20</li><br>
            <a href="#">News Archives></a><br>
        </ul>
    </div>
    <div class="exams">
<h3 style="background-color: #BF2F93;">Examinations Notice Board</h3>
<ul>
<li>Exam fee notifications for B.Tech., III, VI & VII-Semesters and MCA V=Semester Nov-
2019</li><br>
<li>Results of M.Tech IV-Semester (Project-Viva) September-2019</li><br>
<li>CBCS B.Tech., V, VI, VII & VIII-Semesters (Subjects) Exam fee notification for
Nov/Dec-2019</li><br>

```

```

<li>Timetable for B.Tech I to IV Semesters VR10 & VR14 - Supple - Oct-2019</li><br>
<li>Exam fee notification for B.Tech IV & V Semesters Examinations - Nov2019</li><br>
    <a href="#">News Archives>></a><br>
</ul>
</div>
<div class="links">
    <h3 style="background-color: #20AF26;">Quick Links</h3>
    <ul>
        <li>Institution innovation council</li>
        <li>Internal Sliding 2019 Notice</li>
        <li>Collaborative Labs</li>
        <li>Intellectual Property Policy</li>
        <li>Choice Based Credit System Guidelines</li>
        <li>Institutional Electives for 3/4 B.Tech Students</li>
        <li>Accreditation Status</li>
        <li>NIRF</li>
        <li>Faculty Details</li>
        <li>Punishments for malpractice cases in exams</li>
        <li>Academic Calander</li>
        <li>Governing Body Minutes</li>
        <li>NAAC Self Study Report</li>
        <li>AICTE Feedback (Faculty/Students)</li>
    </ul>
</div>
</div>
</body>
</html>

```

Output:

Latest News	Examinations Notice Board	Quick Links
<ul style="list-style-type: none"> ◦ AWS CLOUD LITERACY DAY ◦ Anblicks Ignite Program for 4/4 B.Tech Students ◦ 21-09-2019 i.e. Saturday is declared as holiday in lieu of 15-09-2019 to all students, faculty and s... ◦ Spot Admissions 2019: Vacancy position for B.Tech first year ◦ I/IV B.Tech I & II Semesters Academic Calander for the year 2019-20 ◦ Department of IT is introducing M.Tech in Data Science for A.Y. 2019-20 <p>News Archives>></p>	<ul style="list-style-type: none"> ◦ Exam fee notifications for B.Tech., III, VI & VII-Semesters and MCA V=Semester Nov-2019 ◦ Results of M.Tech IV-Semester (Project-Viva) September-2019 ◦ CBCS B.Tech., V, VI, VII & VIII-Semesters (Subjects) Exam fee notification for Nov/Dec-2019 ◦ Timetable for B.Tech I to IV Semesters VR10 & VR14 - Supple - Oct-2019 ◦ Exam fee notification for B.Tech IV & V Semesters Examinations - Nov2019 <p>News Archives>></p>	<ul style="list-style-type: none"> ◦ Institution innovation council ◦ Internal Sliding 2019 Notice ◦ Collaborative Labs ◦ Intellectual Property Policy ◦ Choice Based Credit System Guidelines ◦ Institutional Electives for 3/4 B.Tech Students ◦ Accreditation Status ◦ NIRF ◦ Faculty Details ◦ Punishments for malpractice cases in exams ◦ Academic Calander ◦ Governing Body Minutes ◦ NAAC Self Study Report ◦ AICTE Feedback (Faculty/Students)

Post-Lab Task:

1. Design a Web page using CSS Selectors as shown below

Brief Profile of the college

Last Updated on Friday, 23 November 2018 12:28

40 Years of Excellence and the Journey Continues.....

Velagapudi Ramakrishna

Siddhartha Engineering College

Kanuru, Vijayawada-52007

Autonomous, Affiliated to JNTUK, Approved by AICTE , Accredited by NACC with 'A' Grade

An ISO 9001:2008 Certified Institution

Sponsored by Siddhartha Academy of General and Technical Education, Vijayawada

First self-financed Engineering College in composite state of Andhra Pradesh established in the year 1977

First Private college to offer PG Programmes in engineering in Andhra Pradesh in the year 1998

Offering 7 UG (B.Tech) Courses with intake of 1140, 9 M.Tech (Specialisations) -180, MBA-60, MCA-60. Total Student Strength in the campus- 5700

Autonomous College by UGC since 2006

Code:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>VRSEC page</title>
  <style type="text/css">
    body{
      font-family: sans-serif;
      margin: 0;
    }
    #title{
      margin: 10px;
      color: grey;
    }
    #update{
      color: grey;
      font-size: 15px;
      margin: 5px;
    }
    #journey{
      color: #007600;
```

```
        background-color: #F4F5F6;
        padding: 2px;
        margin-left: 5px;
    }
    .clgdetails{
        background-color: #A9CCE4;
        padding: 2px;
        line-height: 1.2;
    }
    .clgdetails h4{
        color: #111991;
        margin-left: 10px;
        margin-bottom: 0;
    }
    .clgdetails p{
        margin-left: 10px;
        margin-top: 0;
        font-size: 16px;
        color: #492B2D;
    }
    .testimo{
        background-color: #F4F5F6;
        margin: 10px 5px;
        color: darkslateblue;
        padding: 4px;
        border: 1px;
        border-style: dotted;
        border-left: 0;
        border-right: 0;
    }
    .high{
        color:#FC594B;
    }
</style>
</head>
<body>
<h3 id="title">Brief Profile of the college</h3>
<hr>
<p id="update"><em>Last Updated on Friday, 23 November 2018 12:28</em></p>
<h2 id="journey">40 Years of Excellence and the Journey Continues.....</h2>
<div class="clgdetails">
    <h4>Velagapudi Ramakrishna<br>Siddhartha Engineering College</h4>
    <p>Kanuru, Vijayawada-520007<br>Autonomous, Affiliated to JNTUK, Approved
    by AICTE, Accredited by NACC with 'A' Grade.<br>An ISO 9001:2008 Certified
    Institution<br>Sponsored by Siddhartha Academy of General and Technical Education,
    Vijayawada</p>
</div>
<h4 class="testimo"><span class="high">First self-financed</span> Engineering College
in composite state of Andhra Pradesh established in 1977</h4>
```

```

<h4 class="testimo"><span class="high">First</span> Private college to offer PG
Programmes in engineering in Andhra Pradesh in the year 1998</h4>
<h4 class="testimo">Offering 7 UG (B.Tech) Courses with intake of 1140, 9 M.Tech
(Specialisations) -180, MBA-60, MCA-60. <span class="high">Total Student Strength in
the campus - 5700</span></h4>
<h4 class="testimo"><span class="high">Autonomous</span> College by <span
class="high">UGC</span> since 2006</h4>
</body>
</html>

```

Output:

Brief Profile of the college

Last Updated on Friday, 23 November 2018 12:28

40 Years of Excellence and the Journey Continues.....

**Velagapudi Ramakrishna
Siddhartha Engineering College**
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Offering 7 UG (B.Tech) Courses with intake of 1140, 9 M.Tech (Specialisations) -180, MBA-60, MCA-60. Total Student Strength in the campus - 5700

Autonomous College by UGC since 2006

Student's Signature***(For Evaluator's use only)***

Comment of the Evaluator (if Any)	Evaluator's Observation Marks Secured: _____ out of _____
	Full Name of the Evaluator:
	Signature of the Evaluator:
	Date of Evaluation: