

WEEK – 1

Aim: To understand the Basic concepts the HTML language and heading tags

Description:

1.What is web programming?

Web programming refers to the writing, markup and coding involved in Web development, which includes Web content, Web client and server scripting and network security. The most common languages used for Web programming are XML, HTML, JavaScript, Perl 5 and PHP. Web programming is different from just programming, which requires interdisciplinary knowledge on the application area, client and server scripting, and database technology.

To improve user experience and related functionalities on the client side, JavaScript is usually used. It is an excellent client-side platform for designing and implementing Web applications.

HTML5 and CSS3 supports most of the client-side functionality provided by other application frameworks.

2.what is full form of HTML ? and what is its version?

- HYPER TEXT MARKUP LANGUAGE .
- current version is HTML5

3.How do we write code in HTML?

```
<html>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

4.Difference b/w LAN,MAN & VAN?

- A LAN (local area network) is a group of computers and network devices connected together, usually within the same building.
- A MAN (metropolitan area network) is a larger network that usually spans several buildings in the same city or town.
- A WAN (wide area network), in comparison to a MAN, is not restricted to a geographical location, although it might be confined within the bounds of a state or country. A WAN connects several LANs, and may be limited to an enterprise (a corporation or an

organization) or accessible to the public. The technology is high speed and relatively expensive. The Internet is an example of a worldwide public WAN.

5. Difference between physical address and logical address

- The logical address is a virtual address and can be viewed by the user. ... The fundamental difference between logical and physical address is that logical address is generated by CPU during a program execution whereas, the physical address refers to a location in the memory unit.

6.What are h1-h6 tags in HTML?

```
<!DOCTYPE html>
<html>
<body>
  <h1>Heading 1</h1>
  <h2>Heading 2</h2>
  <h3>Heading 3</h3>
  <h4>Heading 4</h4>
  <h5>Heading 5</h5>
  <h6>Heading 6</h6>
</body>
</html>
```

7. How many types of tags are there in HTML and what are they ?

1. Paired and Unpaired Tags

Paired Tags : <p> This text is a paragraph . </p>

Unpaired Tags :

<p> This is a paragraph </p>

<hr>

<i> This is a bold and italicized text </i>

2. Self-Closing Tags

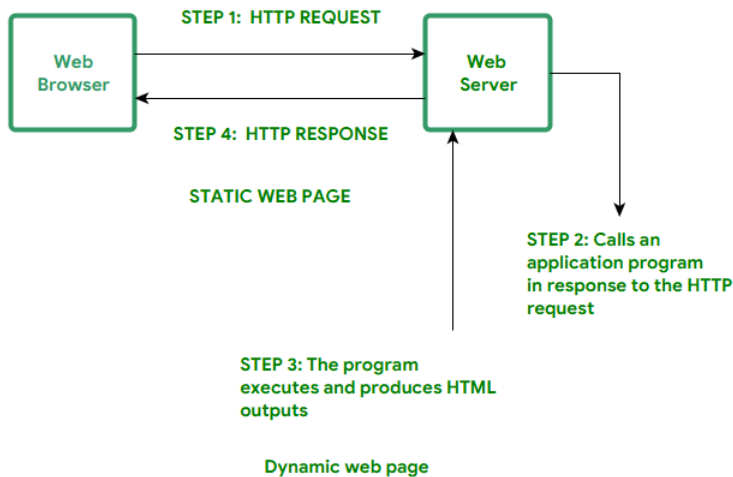
3. Utility-Based Tags:

- This is done using tags like , , <u>, etc. Tables, divisions, and span tags are also those tags that help format a web page or document and set the layout of the page.

Control Tags

- Another category of tags that can be created is 'Control Tags'. The Script tags, radio buttons or checkboxes, the Form tags, etc., forms the control tags

8. what is a web page and what are the different types of web pages?



- web page is a document available on world wide web. Web Pages are stored on web server and can be viewed using a web browser. A web page can contain huge information including text, graphics, audio, video and hyper links. These hyper links are the link to other web pages

-> Static Web pages:

Static Web pages are very simple. It is written in languages such as HTML, JavaScript, CSS, etc. For static web pages when a server receives a request for a web page, then the server sends the response to the client without doing any additional process. And these web pages are seen through a web browser. In static web pages, Pages will remain the same until someone changes it manually.

-> Dynamic Web Pages:

Dynamic Web Pages are written in languages such as CGI, AJAX, ASP, ASP.NET, etc. In dynamic web pages, the Content of pages is different for different visitors. It takes more time to load than the static web page. Dynamic web pages are used where the information is changed frequently, for example, stock prices, weather information, etc.

9.what is a website ?

A website is a collection of web pages and related content that is identified by a common domain name and published on at least one web server. Notable examples are wikipedia.org, google.com, and amazon.com. All publicly accessible websites collectively constitute the World Wide Web

Program:

```
<html>
```

```
<h1> M.J.N.V.SAI </h1>
```

```
<h2> M.J.N.V.SAI </h2>
```

```
<h3> M.J.N.V.SAI </h3>
```

```
<h4> M.J.N.V.SAI </h4>
```

```
<h5> M.J.N.V.SAI </h5>
```

```
<h6> M.J.N.V.SAI </h6>
```

```
</html>
```

OUTPUT:

M.J.N.V.SAI

M.J.N.V.SAI

M.J.N.V.SAI

M.J.N.V.SAI

M.J.N.V.SAI

M.J.N.V.SAI

WEEK – 2

Aim: To design the homepage with image tags and paragraph, bold, italic tags.

Description:

1) What is the difference between b/n heading , title , body?

Heading fonts and body fonts are part of the templates available to you as part of your brand.

Heading fonts are used as larger, higher impact text, such as in a title or section header

Body fonts are usually used with longer text, like a paragraph or secondary text. We recommend an easy-to-read font that pairs well with your heading font. You may want to choose an easy to read font that compliments your heading font choice. Body fonts also support bold and italics styles. If you'd like you can select your regular font, and we will build the italics and bold styles automatically for you, but your text will look its best when you also upload the font files all the text styling options.

2) What is the difference between web application and mobile application

Native apps:

They are installed onto the device itself and are developed especially for a particular mobile operating system. These apps are available on app stores such as Apple App Store, Google Play Store, etc.

Native apps work in specific mobile operating systems such as Apple iOS or Android OS.

If an app made for Android OS then it will not work on Apple iOS or Windows OS. We have to build separate apps for each operating system if we want to work our app across all major operating systems. This means we have to spend more money and more effort (time, resources).

- Native apps are faster than web apps.
- Native apps can access system/device resources such as a GPS or camera.
- These apps can work without an internet connections

Web Apps:

Web Apps can be accessed through the mobile device's Web browser, Web Apps are based on internet-enabled applications. In order to access we don't need to download and install the app onto a mobile device.

The app is developed as web pages in HTML and CSS, interactive parts are developed in JQuery, JavaScript, or similar language. The single web app can be used on most devices capable of surfing the web, it does not depend upon the operating system they use.

- Web Apps do not work without an internet connection.
- Web apps work slower than mobile apps.
- It is difficult to discover web apps since they aren't hosted in a specific database like an app store

3) List out various types of tags?.

Various types of Tags:

- **Title tag:**

The `<title>` tag defines the title of the document. The title must be text-only, and it is shown in the browser's title bar or in the page's tab.

The `<title>` tag is required in HTML documents!

The contents of a page title is very important for search engine optimization (SEO)! The page title is used by search engine algorithms to decide the order when listing pages in search results.

The `<title>` element:

- defines a title in the browser toolbar
- provides a title for the page when it is added to favorites
- displays a title for the page in search-engine resume

- **Strong Tag:**

The `` tag is used to define text with strong importance. The content inside is typically displayed in **bold**.

- **Center Tag:**

`<center>` `</center>` : places at the center of web-page

- **Small tags:**

1. `` `` : bolds the string
2. `<u>` `</u>` : underlines the string
3. `<i>` `</i>` : string will be in italic style

Image tag:

Src : image source

Width & height : they are image dimensions

Hyper – link tag:

 link-name

Program:

```
<html>
<head>
<title> RESUME: M.Sai </title>
</head>
<body style="background-color:#30bc9242">
<center> <h1 style="color:blue"> <b> <U> <i> RESUME </i> </U> </b> </h1> </center>
<h2> <strong> MOTAMARRI JAYA NAGA VENKATA SAI </strong> </h2>
<img src = "https://bit.ly/3qVrg6X" align = "right" width = "500" height = "500">
<p> <b> Email: sai.doc45@gmail.com </b> </p>
<p> Contact number: 8331062449 </p>
<p> Codechef username: msai_45 </p>
<p> Facebook username: mjnvs Sai </p>
<p> <a href="https://www.facebook.com"> myfacebook.com </a> </p>
<p> <a href="https://mjnvsai.blogspot.com/"> myblog.com </a> </p>
<p> <a href="https://github.com/MJNVSai"> mygithub.com </a> </p>
<p> At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information
Technology After then i have completed my intermediate in K.B.N Shine college and also i
have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch, at
present My short-term goal is to Become Best in Coding and My middle-term goal is To get
best rank in any Coding platform and My long-term goal is to get placed in AMAZON
Company and my hobbies are listning music, watching Anime and movies, Imporving My
coding skills in leishure time...</p>
<p> DOB: 15-01-2002 </p>
<p> Age: 19 </p>
<p> Fathers name: M.Krishna Rao </p>
<p> Address: 17-76-B/1,kothapeta, 1Town </p>
</body>
```


</html>

OUTPUT:

RESUME

MOTAMARRI JAYA NAGA VENKATA SAI

Email: sai.doc45@gmail.com

Contact number: 8331062449

Codechef username: msai_45

Facebook username: mjinvsai

[myfacebook.com](#)

[myblog.com](#)

[mygithub.com](#)


At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information Technology After then i have completed my intermediate in K.B.N Shine college and also i have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch. at present My short-term goal is to Become Best in Coding and My middle-term goal is To get best rank in any Coding platform and My long-term goal is to get placed in AMAZON Company and my hobbies are listening music, watching Anime and movies, Improving My coding skills in leishure time..

DOB: 15-01-2002

Age: 19

Fathers name: M.Krishna Rao

Address: 17-76-B/1,kothapeta, 1Town



WEEK-3

Aim: Create an Ordered and unordered Lists and Insert an Video,audio Into an webpage

Description:

Lists:

What are lists in HTML language and types of Lists?

There are 2 types of lists and they are:

- Ordered Lists
- Unordered Lists

Ordered Lists:

- An ordered list starts with the `` tag. Each list item starts with the `` tag. The list items will be marked with numbers by default.
- The HTML `` tag defines an ordered list. An ordered list can be numerical or alphabetical.

Type attributes in Ordered list:

The `type` attribute of the `` tag, defines the type of the list item marker:

Type	Description
<code>type="1"</code>	The list items will be numbered with numbers (default)
<code>type="A"</code>	The list items will be numbered with uppercase letters
<code>type="a"</code>	The list items will be numbered with lowercase letters
<code>type="I"</code>	The list items will be numbered with uppercase roman numbers
<code>type="i"</code>	The list items will be numbered with lowercase roman numbers

Syntax: (ordered list)

```
<ol type=" " >
```

```
    <li>.....</li>
```

```
    <li> .....</li>
```

```
    <li>.....</li>
```

```
</ol>
```

- Use the HTML `` element to define an ordered list
- Use the HTML `type` attribute to define the numbering type
- Use the HTML `` element to define a list item
- Lists can be nested
- List items can contain other HTML elements

Unordered List:

- ✚ An unordered list starts with the `` tag. Each list item starts with the `` tag.
- ✚ The list items will be marked with bullets (small black circles) by default
- ✚ The HTML `` tag defines an unordered (bulleted) list.

Type attributes in unordered lists:

- ❖ The `type` attribute of the `` tag, defines the type of the list item marker:

Value	Description
disc	Sets the list item marker to a bullet (default)
circle	Sets the list item marker to a circle

square	Sets the list item marker to a square
none	The list items will not be marked

Unordered lists syntax:

```
<ul type="">
```

```
    <li>.....</li>
```

```
    <li>.....</li>
```

```
    <li>.....</li>
```

```
</ul>
```

Video Tag:

The `<video>` tag is used to embed video content in a document, such as a movie clip or other video streams.

The `<video>` tag contains one or more [<source>](#) tags with different video sources. The browser will choose the first source it supports.

The text between the `<video>` and `</video>` tags will only be displayed in browsers that do not support the `<video>` element.

There are three supported video formats in HTML: MP4, WebM, and OGG.

Attributes in video tag:

Attribute	Value	Description
autoplay	autoplay	Specifies that the video will start playing as soon as it is ready

controls	controls	Specifies that video controls should be displayed (such as a play/pause button etc).
height	<i>pixels</i>	Sets the height of the video player
loop	loop	Specifies that the video will start over again, every time it is finished
muted	muted	Specifies that the audio output of the video should be muted
poster	<i>URL</i>	Specifies an image to be shown while the video is downloading, or until the user hits the play button
preload	auto metadata none	Specifies if and how the author thinks the video should be loaded when the page loads
src	<i>URL</i>	Specifies the URL of the video file
width	<i>pixels</i>	Sets the width of the video player

Syntax for Video tag:

```
<video width = “ ” height = “ ” poster = “.png/.jpeg/url“ controls>
```

```
<source src = “url or path of file.mp4” type = “video/mp4”>
```

(or)

```
<source src = “url or path of file.ogg” type = “video/ogg”>
```

```
</video>
```

Audio Tag:

The `<audio>` tag is used to embed sound content in a document, such as music or other audio streams.

The `<audio>` tag contains one or more [<source>](#) tags with different audio sources. The browser will choose the first source it supports.

The text between the `<audio>` and `</audio>` tags will only be displayed in browsers that do not support the `<audio>` element.

There are three supported audio formats in HTML: MP3, WAV, and OGG.

Attributes in Audio tag:

Attribute	Value	Description
autoplay	autoplay	Specifies that the audio will start playing as soon as it is ready
controls	controls	Specifies that audio controls should be displayed (such as a play/pause button etc)
loop	loop	Specifies that the audio will start over again, every time it is finished

muted	muted	Specifies that the audio output should be muted
preload	auto metadata none	Specifies if and how the author thinks the audio should be loaded when the page loads
src	URL	Specifies the URL of the audio file

Syntax for Audio Tag:

<audio controls>

<source src = "url or path of file.mp3" type = "audio/mpeg">

(or)

<source src = "url or path of file.ogg" type = "audio/ogg">

</audio>

Program-1:

```

<html>
<head>
<title> RESUME: M.Sai </title>
</head>
<body style="background-color:#30bc9242">
<center> <h1 style="color:blue"> <b> <U> <i> RESUME </i> </U> </b> </h1> </center>
<h2> <strong> MOTAMARRI JAYA NAGA VENKATA SAI </strong> </h2>
<img src = "https://bit.ly/3qVrg6X" align = "right" width = "300" height = "300">
<p> Email: sai.doc45@gmail.com </p>
<p> Contact number: 8331062449 </p>
<p> Codechef username: msai_45 </p>
<p> Facebook username: mjinV Sai </p>
<p> <a href="https://www.facebook.com"> myfacebook.com </a> </p>
<p> <a href="https://mjnvsai.blogspot.com/"> myblog.com </a> </p>

```

<p> mygithub.com </p>

<p> At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information Technology After then i have completed my intermediate in K.B.N Shine college and also i have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch, at present My short-term goal is to Become Best in Coding and My middle-term goal is To get best rank in any Coding platform and My long-term goal is to get placed in AMAZON Company and my hobbies are listning music, watching Anime and movies, Imporving My coding skills in leishure time...</p>

<p style="color:blue"> Technical Skills: </p>

<ol type="1">

 C-Programming

 Python Language

 C++ Programming Language

<p style="color:blue"> Self-Affirmation Video </p>

<video width = "350" height = "250" poster = "https://bit.ly/3IT6NME" controls>

<source src = "https://mjnvsai.github.io/VRSEC/Web-programming/HTML/self.mp4" type = "video/mp4">

</video>

<p style="color:blue"> Self-Affirmation Audio </p>

<audio controls>

<source src = "https://mjnvsai.github.io/VRSEC/Web-programming/HTML/self-introduct-sai.mp3" type = "audio/mp3">

</audio>

<p style="color:blue"> Hobbies: </p>

<ul type="disc">

 Listening Music

 Watching Movies & Web-series

 Video and Photo editing

<p> DOB: 15-01-2002 </p>

<p> Age: 19 </p>

<p> Fathers name: M.Krishna Rao </p>

<p> Address: 76-7-18/1,bhavanipuram,vijayawada </p>

</body>

</html>

Program-2:

```
<html>
<body style="background-color:#30bc9242">
<h1 style="color:green"> <center> <U> Different Types of list's in HTML </U> </center>
</h1>
<h2> Ordered List: </h2>
<h3> Friend's List: </h3>
<ol type="1">
<li> Rizwan </li>
<li> Ajay </li>
<li> Srinivas </li>
<li> Yesu Raju </li>
<li> Mounav </li>
<li> Mounav </li>
</ol>
<h3> Coding List: </h3>
<ol type="A">
<li> C language </li>
<li> Python </li>
<li> C++ Language </li>
<li> HTML Language </li>
<li> Dennis Ritchie </li>
</ol>
<h3> Bike's List: </h3>
<ol type="I">
<li> Hero Honda </li>
<li> Bullet </li>
<li> Avenger </li>
<li> Jupyter </li>
<li> TVS Excel Super100 </li>
<li> Royal Enfield </li>
</ol>
<h3> Avenger's List: </h3>
<ol type="a">
<li> Spider-Man </li>
<li> Captain America </li>
<li> Iron-Man </li>
```

 Hawkye

 Hulk

 Thor

<h2> Unordered List: </h2>

<h3> Friend's List: </h3>

 Rizwan

 Ajay

 Srinivas

 Yesu Raju

 Mounav

 Mounav

<h3> Coding List: </h3>

<ul type="circle">

 C language

 Python

 C++ Language

 HTML Language

 Dennis Ritchie

<h3> Bike's List: </h3>

<ul type="square">

 Hero Honda

 Bullet

 Avenger

 Jupyter

 TVS Excel Super100

 Royal Enfield

<h3> Avenger's List: </h3>

<ul type="none">

 Spider-Man

 Captain America

 Iron-Man

 Hawkye

```
<li> Hulk </li>
<li> Thor </li>
</ul>
</body>
</html>
```

OUTPUT:

RESUME

MOTAMARRI JAYA NAGA VENKATA SAI


Email: sai.doc45@gmail.com
 Contact number: 8331062449
 Codechef username: msai_45
 Facebook username: mjinV Sai
[myfacebook.com](#)
[myblog.com](#)
[mygithub.com](#)

At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information Technology After then i have completed my intermediate in K.B.N Shine college and also i have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch, at present My short-term goal is to Become Best in Coding and My middle-term goal is To get best rank in any Coding platform and My long-term goal is to get placed in AMAZON Company and my hobbies are listening music, watching Anime and movies, Improving My coding skills in leishure time...


Technical Skills:

1. C-Programming
2. Python Language
3. C++ Programming Language

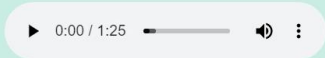
Self-Affirmation Video



Self-Affirmation Video



Self-Affirmation Audio



Hobbies:

- Listening Music
- Watching Movies & Web-series
- Video and Photo editing

DOB: 15-01-2002
 Age: 19
 Fathers name: M.Krishna Rao
 Address: 76-7-18/1,bhavanipuram,vijayawada

Different Types of list's in HTML

Ordered List:

Friend's List:

1. Rizwan
2. Ajay
3. Srinivas
4. Yesu Raju
5. Mounav
6. Mounav

Coding List:

- A. C language
- B. Python
- C. C++ Language
- D. HTML Language
- E. Dennis Ritchie

Bike's List:

- I. Hero Honda
- II. Bullet
- III. Avenger
- IV. Jupyter
- V. TVS Excel Super100
- VI. Royal Enfield

Avenger's List:

- a. Spider-Man
- b. Captain America
- c. Iron-Man
- d. Hawkeye

Unordered List:

Friend's List:

- Rizwan
- Ajay
- Srinivas
- Yesu Raju
- Mounav
- Mounav

Coding List:

- C language
- Python
- C++ Language
- HTML Language
- Dennis Ritchie

Bike's List:

- Hero Honda
- Bullet
- Avenger
- Jupyter
- TVS Excel Super100
- Royal Enfield

Avenger's List:

- Spider-Man
- Captain America
- Iron-Man
- Hawkeye
- Hulk
- Thor

Week – 4

Aim: Create an your Resume by using framset tag and using HTML language.

Description:

Frameset:

The <frameset> tag in HTML is used to define the frameset. The <frameset> element contains one or more frame elements. It is used to specify the number of rows and columns in frameset with their pixel of spaces. Each element can hold a separate document.

HTML frames are used to divide your browser window into multiple sections where each section can load a separate HTML document. A collection of frames in the browser window is known as a frameset. The window is divided into frames in a similar way the tables are organized: into rows and columns.

Attributes in Frameset:

cols: The cols attribute is used to create vertical frames in a web browser. This attribute is basically used to define the no. of columns and their size inside the frameset tag.

rows: The rows attribute is used to create horizontal frames in the web browser. This attribute is used to define the no. of rows and their size inside the frameset tag.

border: This attribute of frameset tag defines the width of the border of each frame in pixels. Zero value is used for no border.

frameborder: This attribute of frameset tag is used to specify whether a three-dimensional border should be displayed between the frames or not for this use two values 0 and 1, where 0 defines no border and value 1 signifies for yes there will be a border.

framespacing: This attribute of frameset tag is used to specify the amount of spacing between the frames in a frameset. This can take any integer value as a parameter which basically denotes the value in pixel.

Syantax For Column's Division:

```
<frameset cols = "n1%, n2%, n3%">
  <frame name = "top" src = "first file.html" />
  <frame name = "main" src = "second file.html" />
  <frame name = "bottom" src = "third file.html" />
  .
  .
  .
```

```

.
<noframes>
    <body>
        You can write here documentation.
        n1,n2,n3 are the division of web-page percentages.
    </body>
</noframes>
</frameset>

```

Syntax For Row's Division:

```

<frameset rows = "n1%, n2%, n3%">
    <frame name = "top" src = "first file.html" />
    <frame name = "main" src = "second file.html" />
    <frame name = "bottom" src = "third file.html" />
.
.
.
.
<noframes>
    <body>
        You can write here documentation.
        n1,n2,n3 are the division of web-page percentages.
    </body>
</noframes>
</frameset>

```

Program:

```

<html>
<head>
<title> RESUME </title>
</head>

<frameset cols = "25%, 39%, 36%">
<frame name = "top" src = "https://mjnvsai.github.io/VRSEC/Web-
programming/HTML/frameset/sai1.html" />
<frame name = "main" src = "https://mjnvsai.github.io/VRSEC/Web-
programming/HTML/frameset/paragraph.html" />
<frame name = "bottom" src = "https://mjnvsai.github.io/VRSEC/Web-
programming/HTML/frameset/personal.html" />

```

```

<noframes>
<body> this browser is working </body>
</noframes>
</frameset>
</html>

```

OUTPUT:



MOTAMARRI JAYA NAGA VENKATA SAI

Email: sai.doc45@gmail.com
Contact number: 8331062449
Codechef username: msai_45
[myfacebook.com](#)
[myblog.com](#)
[mygithub.com](#)

My Self:

At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information Technology After then i have completed my intermediate in K.B.N Shine college and also i have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch, at present My short-term goal is to Become Best in Coding and My middle-term goal is To get best rank in any Coding platform and My long-term goal is to get placed in AMAZON Company and my hobbies are listening music, watching Anime and movies, Improving My coding skills in leishure time...

Self-Affirmation Video



Self-Affirmation Audio



Academic Qualifications

S.no	Board of Study	Course	Institution	Year of Study	Percentage
1	Jawaharlal Nehru Technological University Kakinada	B.Tech (IT)	Velagapudi Ramakrishna Siddhartha Engineering College	2020 - 2024	81%
2	Board of Intermediate Andhra Pradesh	Intermediate (M.P.C)	Kakarpathi Bhavanaryana College	2018 - 2020	93%
3	Board of Secondary Education Andhra Pradesh	S.S.C	Ravindra Bharathi Public School	2017 - 2018	87%

Personal:

DOB: 15-01-2002
Age: 19
Fathers name: M.Krishna Rao
Mothers name: M.Mani
Address: 17-7-18/1,Bhavanipuram,vijayavada

WEEK – 5

Aim: To create an Academic Qualifications Table using Table tag in HTML

Description:

Tables:

- HTML tables allow web developers to arrange data into rows and columns.
- The HTML tables are created using the **<table>** tag in which the **<tr>** tag is used to create table rows and **<td>** tag is used to create data cells. The elements under **<td>** are regular and left aligned by default

Table Heading:

- Table heading can be defined using **<th>** tag. This tag will be put to replace **<td>** tag, which is used to represent actual data cell. Normally you will put your top row as table heading as shown below, otherwise you can use **<th>** element in any row. Headings, which are defined in **<th>** tag are centered and bold by default.

Cellpadding and Cellspacing:

- There are two attributes called cellpadding and cellspacing which you will use to adjust the white space in your table cells. The cellspacing attribute defines space between table cells, while cellpadding represents the distance between cell borders and the content within a cell.

Table Height and Width:

- ❖ You can set a table width and height using width and height attributes. You can specify table width or height in terms of pixels or in terms of percentage of available screen area.

Table Backgrounds:

- ✚ You can set table background using one of the following two ways –
- ✚ bgcolor attribute – You can set background color for whole table or just for one cell.
- ✚ background attribute – You can set background image for whole table or just for one cell.
- ✚ You can also set border color also using bordercolor attribute

Table Header: use **<th>** **</th>**

Table rows or columns: use **<tr>** **</tr>**

Table Data: use **<td>** **</td>**

Attributes in Table Tag:

Tag	Description
<u><table></u>	Defines a table
<u><th></u>	Defines a header cell in a table
<u><tr></u>	Defines a row in a table
<u><td></u>	Defines a cell in a table
<u><caption></u>	Defines a table caption
<u><colgroup></u>	Specifies a group of one or more columns in a table for formatting
<u><col></u>	Specifies column properties for each column within a <colgroup> element
<u><thead></u>	Groups the header content in a table
<u><tbody></u>	Groups the body content in a table
<u><tfoot></u>	Groups the footer content in a table

Syntax For Table:

```
<table border = " " width = " " height = " " cellpadding = " " bordercolor = " "
bgcolor = " " >
```

```
    <tr>
        <th> ..... </th>
        .
        .
        .
    </tr>
```

```
    <tr>
        <td> ..... </td>
        <td> ..... </td>
        .
        .
        .
        .
    </tr>
```

```
    .
    .
</table>
```

Program:

```
<html>
<body bgcolor="Aquamarine">
<p style="color:blue"> <b> Academic Qualifications </b> </p>
<table border = "1" width="670" height="260" cellpadding = "5" bordercolor = "Chocolate">
<tr>
<th> S.no </th>

<th> Board of Study </th>
<th> Course </th>
<th> Institution </th>
<th> Year of Study </th>
```

Percentage
1
Jawaharlal Nehru Technological University Kakinada
B.Tech (IT)
Velagapudi Ramakrishna Siddhartha Engineering College
2020 - 2024
81%
2
Board of Intermediate Andhra Pradesh
Intermediate (M.P.C)
Kakarpalli Bhavanarayana College
2018 - 2020
93%
3
Board of Secondary Education Andhra Pradesh
S.S.C
Ravindra Bharathi Public School
2017 - 2018
87%

OUTPUT:**Academic Qualifications**

S.no	Board of Study	Course	Institution	Year of Study	Percentage
1	Jawaharlal Nehru Technological University Kakinada	B.Tech (IT)	Velagapudi Ramakrishna Siddhartha Engineering College	2020 - 2024	81%
2	Board of Intermediate Andhra Pradesh	Intermediate (M.P.C)	Kakarpalli Bhavanarayana College	2018 - 2020	93%
3	Board of Secondary Education Andhra Pradesh	S.S.C	Ravindra Bharathi Public School	2017 - 2018	87%

WEEK – 6

Aim : To create simple Resume HTML form

Description:

HTML Forms are required, when you want to collect some data from the site visitor. For example, during user registration you would like to collect information such as name, email address, credit card, etc.

A form will take input from the site visitor and then will post it to a back-end application such as CGI, ASP Script or PHP script etc. The back-end application will perform required processing on the passed data based on defined business logic inside the application.

There are various form elements available like text fields, textarea fields, drop-down menus, radio buttons, checkboxes, etc.

Form – Tag Attributes:

Sr.No	Attribute & Description
1	action Backend script ready to process your passed data.
2	method Method to be used to upload data. The most frequently used are GET and POST methods.
3	target Specify the target window or frame where the result of the script will be displayed. It takes

	values like _blank, _self, _parent etc.
4	<p>enctype</p> <p>You can use the enctype attribute to specify how the browser encodes the data before it sends it to the server. Possible values are –</p> <p>application/x-www-form-urlencoded – This is the standard method most forms use in simple scenarios.</p> <p>multipart/form-data – This is used when you want to upload binary data in the form of files like image, word file etc.</p>

HTML Form Controls:

There are different types of form controls that you can use to collect data using HTML form –

- Text Input Controls
- Checkboxes Controls
- Radio Box Controls
- Select Box Controls
- File Select boxes
- Hidden Controls
- Clickable Buttons
- Submit and Reset Button
- Text Input Controls

There are three types of text input used on forms –

- **Single-line text input** controls : This control is used for items that require only one line of user input, such as search boxes or names. They are created using HTML <input> tag.

- **Password input controls** : This is also a single-line text input but it masks the character as soon as a user enters it. They are also created using HTML `<input>` tag.
- **Multi-line text input controls** : This is used when the user is required to give details that may be longer than a single sentence. Multi-line input controls are created using HTML `<textarea>` tag.
- **Checkbox Control** : Checkboxes are used when more than one option is required to be selected. They are also created using HTML `<input>` tag but type attribute is set to checkbox..
- **Radio Button Control** : Radio buttons are used when out of many options, just one option is required to be selected. They are also created using HTML `<input>` tag but type attribute is set to radio.
- **Select Box Control** : A select box, also called drop down box which provides option to list down various options in the form of drop down list, from where a user can select one or more options.
- **File Upload Box** : If you want to allow a user to upload a file to your web site, you will need to use a file upload box, also known as a file select box. This is also created using the `<input>` element but type attribute is set to file.
- **Button Controls** : There are various ways in HTML to create clickable buttons. You can also create a clickable button using `<input>` tag by setting its type attribute to button.
- **Hidden Form Controls** : Hidden form controls are used to hide data inside the page which later on can be pushed to the server. This control hides inside the code and does not appear on the actual page. For example, following hidden form is being used to

keep current page number. When a user will click next page then the value of hidden control will be sent to the web server and there it will decide which page will be displayed next based on the passed current page.

Type & Attributes:

<code><input type="text"></code>	Displays a single-line text input field
<code><input type="radio"></code>	Displays a radio button (for selecting one of many choices)
<code><input type="checkbox"></code>	Displays a checkbox (for selecting zero or more of many choices)
<code><input type="submit"></code>	Displays a submit button (for submitting the form)
<code><input type="button"></code>	Displays a clickable button
<code><input type="password"></code>	Encodes the text into symbols
<code><input type="reset"></code>	It will Resets the Form
<code><input type="image"></code>	It will create an image button
<code><select> </select></code>	It will create drop down box
<code><option> <option></code>	It is a part of select tag
<code><input type="file"></code>	User can upload the files

Syntax:

```
<form action = " ....." enctype = "....." method = "POST" >
    <label for = "....."> ..... </label>
    <input type = "...." Id = "..." name = "....." placeholder = "....." >
    <select>
        <option> ..... </option>
        .
        .
```

```

        </select>
        <textarea name = "...." Rows = "...." Cols = "...." Placeholder =
            "....." > </textarea>
    </form>

```

Program:

```

<html>
<head>
    <title> Resume </title>
</head>

<body bgcolor = "aquamarine">
<h1 style="color:blue"> <strong> <i> <U> <center> RESUME </center>
</U> </i> </strong> </h1>

<form
action="https://formsubmit.co/cb2b7f7afbc855bb5ec6f9f81cec6345"
enctype="multipart/form-data" method="POST" >

    <label for="fname" > First Name: </label>
    <input type="text" id="fname" name="fname"
placeholder="Enter your First name" required> <br> <br>

    <label for="mname" > Middle Name: </label>
    <input type="text" id="mname" name="middle name"
placeholder="Enter your Middle name" required> <br> <br>

    <label for="lname" > Last Name: </label>
    <input type="text" id="lname" name="last name"
placeholder="Enter your Last name" required> <br> <br>

    <label for="mail" > Email: </label>

```

```
<input type="mail" id="mail" name="email-id"
placeholder="abcde@***" required> <br> <br>
```

```
<label for="fb" > Facebook: </label>
<input type="url" id="fb" name="facebook" placeholder="Enter
your facebook link" required> <br> <br>
```

```
<label for="insta" > Instagram: </label>
<input type="url" id="insta" name="instagram"
placeholder="Enter your instagram link" required> <br> <br>
```

```
<label for="hack" > Hackerank: </label>
<input type="url" id="hack" name="hackerrank"
placeholder="Enter your hackerank link" required> <br> <br>
```

```
<label for="git" > Github: </label>
<input type="url" id="git" name="Github" placeholder="Enter
your Github link" required> <br> <br>
```

```
<label for="descrip" > About Yourself: </label> <br>
<textarea name="message" rows="10" cols="30"> </textarea>
<br> <br>
```

```
<label for="vresume" > Upload Video-resume: </label>
<input type="file" id="vresume" name="video-resume" required >
<br> <br>
```

```
<label for="aresume" > Upload Audio-resume: </label>
<input type="file" id="aresume" name="Audio-resume" required
> <br> <br>
```

```
<h2 style="color:blue"> Academic Qualifications </h2>
```

```
<table border = "1" width="670" height="260" cellpadding = "5"
bordercolor = "Chocolate">
```

```
<tr>
```

```
<th> S.no </th>
```

```
<th> Board of Study </th>
```

```
<th> Course </th>
```

```
<th> Institution </th>
```

```
<th> Year of Study </th>
```

```
<th> Percentage </th>
```

```
</tr>
```

```
<tr>
```

```
<td> 1 </td>
```

```
<td> <input type="text" size="30" required> </td>
```

```
<td> <input type="text" size="15" required> </td>
```

```
<td> <input type="text" size="30" required> </td>
```

```
<td> <input type="text" size="10" required> </td>
```

```
<td> <input type="text" size="10" required> </td>
```

```
</tr>
```

```
<tr>
```

```
<td> 2 </td>
```

```
<td> <input type="text" size="30" required> </td>
```

```
<td> <input type="text" size="15" required> </td>
```

```
<td> <input type="text" size="30" required> </td>
```

```
<td> <input type="text" size="10" required> </td>
```

```
<td> <input type="text" size="10" required> </td>
```

```
</tr>
```

```
<tr>
```

```
<td> 3 </td>
```

```
<td> <input type="text" size="30" required> </td>
```

```
<td> <input type="text" size="15" required> </td>
```

```

        <td> <input type="text" size="30" required> </td>
        <td> <input type="text" size="10" required> </td>
        <td> <input type="text" size="10" required> </td>
    </tr>
</table>

<br>
<br>
<label for="dept" style="color:blue" > <b> Department: </b>
</label> <br> <br>
<select>
    <option> NONE </option>
    <option> Artificial - Intelligence (AI) </option>
    <option> Computer - Science (CSE) </option>
    <option> Information - Technology (IT) </option>
    <option> Electronics and Instrumentation (EIE) </option>
    <option> Electrical and Electronics (EEE) </option>
    <option> Electronics and Communication (ECE) </option>
    <option> Mechanical Engineering (ME) </option>
    <option> Civil Engineering (CE) </option>
</select>

<br>
<br>
<label for="ts" style="color:blue" > <b> Technical - Skills: </b>
</label> <br> <br>
    <input type="checkbox" id="technical-skills" C-language> C-
language
    <input type="checkbox" Python with OOPS> Python with OOPS
    <input type="checkbox" OOPS with C++> OOPS with C++
    <input type="checkbox" Web-programming> Web-programming
    <input type="checkbox" Data-structures> Data-structures

```

```

<br>
<br>
<label for="nts" style="color:blue" > <b> Non-Technical - Skills:
</b> </label> <br> <br>
<input type="checkbox" id="non-tecnical-skills" Singing> Singing
<input type="checkbox" Dancing> Dancing
<input type="checkbox" Playing> Playing
<input type="checkbox" Watching movies & series> Watching
movies & series
<input type="checkbox" Reading Books> Reading Books
<input type="checkbox" Editing photos & videos> Editing photos
& videos

```

```

<h2 style="color:blue"> Communication: </h2>
<label for="father" > Father's Name: </label>
<input type="text" id="father" size="25" placeholder="Enter your
father's name" required> <br> <br>

```

```

<label for="foccup" > Father's Occupation: </label>
<input type="text" id="foccup" size="25" placeholder="Enter your
fathers job name" required> <br> <br>

```

```

<label for="dob" > Date of Birth: </label>
<input type="date" id="dob" required> <br> <br>

```

```

<label for="gender" > Gender: </label>
<input type="radio" name = "Gender" required > Male
<input type="radio" name = "Gender" required > Female
<input type="radio" name = "Gender" required > Others

```

```

<br>
<br>
<label for="ph.no" > Phone-number: </label>

```

```

<select>
    <option> +91 </option>
    <option> +672 </option>
    <option> +61 </option>
    <option> +880 </option>
    <option> +1 </option>
    <option> +33 </option>
    <option> +49 </option>
    <option> +852 </option>
    <option> +39 </option>
    <option> +81 </option>
</select>
<input type="phone" size=20 name="phone number"
placeholder="8331*****" required > <br> <br>

<label for="addres" > <b> Address: </b> </label> <br>
<textarea name="message" rows="10" cols="30"
placeholder="Write your permanent address" required> </textarea>
<br> <br>

<br>
<label for="place" > <b> Place: </b> </label>
<input type="text" id="place" placeholder="Enter your place"
required> <br> <br>

<label for="pdate" > <b> Date: </b> </label>
<input type="date" id="pdate" required> <br> <br>

<h3 align="right" > SIGNATURE <label for="sign"</label> <br>
<input type="text" id="sign" required> <br> </h3>

<br>
<input type="hidden" name="_template" value="table">

```

```
<br>
<input type="hidden" name="_autoresponse" value="Successfully
submitted the form">
```

```
<br>
<input type="submit" value = "Submit" name = "submit button" >
<input type="reset" value = "Reset" name = "reset button" >

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


OUTPUT:

RESUME

First Name:

Middle Name:

Last Name:

Email:

Facebook:

Instagram:

Hackerrank:

Github:

About Yourself:

At present i am studying 2nd year of B.Tech at V.R.S.E.C in the Branch of Information Technology After then i have completed my intermediate in K.B.N Shine college and also i have completed 10th Class in Ravindra Bharathi Public School in Bhavanipuram Branch, at present My short-term goal is to Become Best in Coding and My middle-term goal is To get best rank in any Coding platform and My long-term goal is to get placed in AMAZON Company and my hobbies are listening music, watching Anime and movies, improving My coding skills in leishure time...

Upload Video-resume: self.mp4

Upload Audio-resume: Web-progra...duct-sai.mp3

Academic Qualifications

S.no	Board of Study	Course	Institution	Year of Study	Percentage
1	JNTUK	B.Tech (IT)	VRSEC	2020 - 2024	81%
2	BIEAP	Intermediate	KBN College	2018 - 2020	93%
3	BSEAP	S.S.C	R.B.P.S	2017 - 2018	87%

Department:

Information - Technology (IT)

Technical - Skills:

☒ C-language ☒ Python with OOPS ☒ OOPS with C++ ☒ Web-programming ☒ Data-structures

Non-Technical - Skills:

☐ Singing ☐ Dancing ☐ Playing ☒ Watching movies & series ☒ Reading Books ☒ Editing photos & videos

Communication:

Father's Name:

Father's Occupation:

Non Technical - Skills:

☐ Singing ☐ Dancing ☐ Playing ☒ Watching movies & series ☒ Reading Books ☒ Editing photos & videos

Communication:

Father's Name:

Father's Occupation:

Date of Birth:

Gender: ☒ Male ☐ Female ☐ Others

Phone-number:

Address:

Place:

Date:

SIGNATURE

Thanks!

The form was submitted successfully. Return to original site:
<https://web.mjnvsai.me/>

You are using  **FORMSUBMIT**

Result : Successfully Executed the program..

WEEK – 7

Aim : Introduction to Django and Django installation

Description:

1) what is django how it is useful?

- A) 1. Django is a high-level Python web framework that enables rapid development of secure and maintainable websites.
2. Django helps developers avoid many common security mistakes by providing a framework that has been engineered to "do the right things" to protect the website automatically.
4. Django is an open-source framework for backend web applications based on Python — one of the top web development languages. Its main goals are simplicity, flexibility, reliability, and scalability.

2) what is the framework used in Django?

- A) It is a Python-based free and open-source web framework that follows the model–template–views (MTV) architectural pattern. It is maintained by the Django Software Foundation (DSF).

3) How to install Django?

- A) step-1 => install latest Version the python.
- step-2 => open command prompt in system and run the below command : `python -m pip install Django`
- step-3 => Make sure the your is pip is upgraded in python.
- step-4 => after running the command you will get the message "Successfully installed the package".

4) what is the Data-base and which data-base is used in Django?

- A) A database is an organized collection of structured information, or data, typically stored electronically in a computer system.

A database is usually controlled by a database management system (DBMS).

Most of the databases use structured query language (SQL) for writing and querying data.

==> Django officially supports the following databases: PostgreSQL. MariaDB. MySQL.

5) How to create an environment to create an project in Django?

A) Steps to Create an Environment in Python:

step-1 => Open a terminal.

step-2 => Setup the pip package manager.

step-3 => Install the virtualenv package.

step-4 => Create the virtual environment.

step-5 => Activate the virtual environment.

Create A New Django Project

1. Change to the Django projects folder and run the following command to create a new project.

Replace the PROJECT placeholder with the name of your project in this and all subsequent commands.

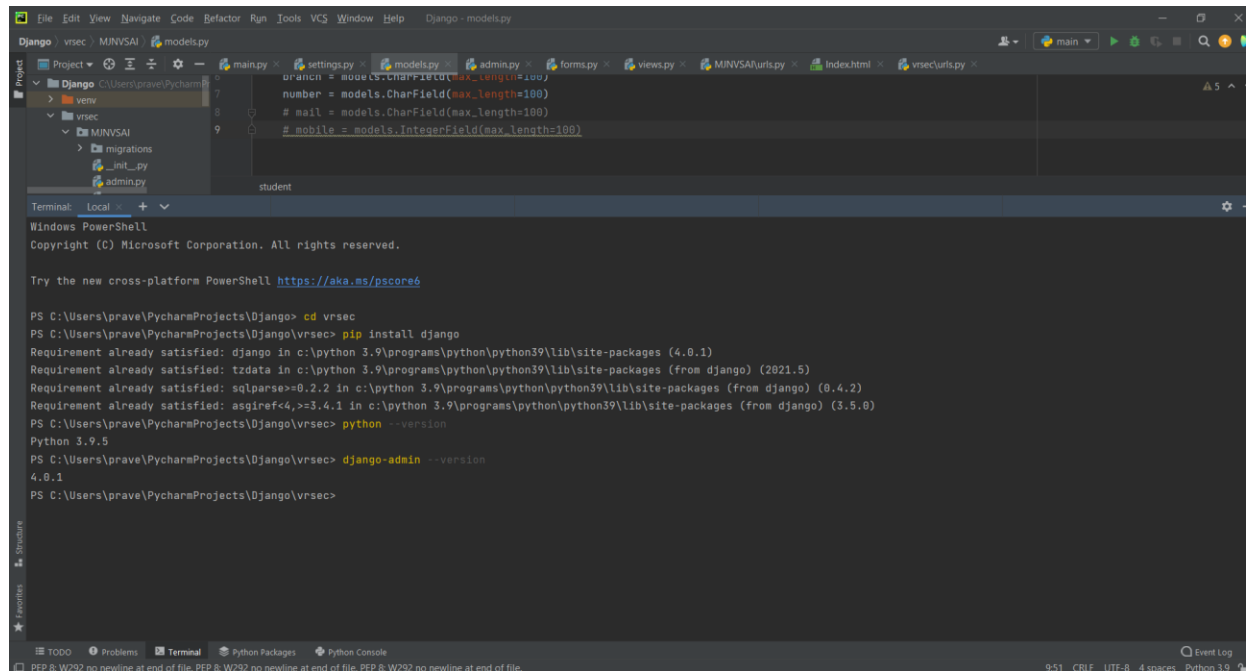
```
{ cd installdir/apps/django/django_projects/PROJECT  
  django-admin.py startproject PROJECT}.
```

2. If you wish to create a new application inside the project, execute the following commands as well.

Replace the APP placeholder with the name of your application in this and all subsequent commands.

```
{ cd PROJECT  
  python3 manage.py startapp APP}
```

OUTPUT:



The screenshot shows the PyCharm IDE interface with a Django project named 'models.py' open. The terminal window at the bottom displays the following commands and output:

```
PS C:\Users\prave\PycharmProjects\Django> cd vrsec
PS C:\Users\prave\PycharmProjects\Django\vrsec> pip install django
Requirement already satisfied: django in c:\python 3.9\programs\python\python39\lib\site-packages (4.0.1)
Requirement already satisfied: tzdata in c:\python 3.9\programs\python\python39\lib\site-packages (from django) (2021.5)
Requirement already satisfied: sqlparse>=0.2.2 in c:\python 3.9\programs\python\python39\lib\site-packages (from django) (0.4.2)
Requirement already satisfied: asgiref<4,>=3.4.1 in c:\python 3.9\programs\python\python39\lib\site-packages (from django) (3.5.0)
PS C:\Users\prave\PycharmProjects\Django\vrsec> python --version
Python 3.9.5
PS C:\Users\prave\PycharmProjects\Django\vrsec> django-admin --version
4.0.1
PS C:\Users\prave\PycharmProjects\Django\vrsec>
```

The code editor shows a snippet of Django model code:

```
number = models.CharField(max_length=100)
# mail = models.CharField(max_length=100)
# mobile = models.IntegerField(max_length=100)
```

Result: Successfully installed Django

WEEK – 8

Aim : Django install and make it work in our systems , eg ;Creating a form

Program :

settings.py

"""

Django settings for vrsec project.

Generated by 'django-admin startproject' using Django 4.0.1.

For more information on this file, see

<https://docs.djangoproject.com/en/4.0/topics/settings/>

For the full list of settings and their values, see

<https://docs.djangoproject.com/en/4.0/ref/settings/>

"""

from pathlib import Path

Build paths inside the project like this: BASE_DIR / 'subdir'.

BASE_DIR = Path(_file_).resolve().parent.parent

Quick-start development settings - unsuitable for production

See <https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/>

SECURITY WARNING: keep the secret key used in production secret!

SECRET_KEY = 'django-insecure-r1-ys-et!zy!)!@g(5u^ghk)s+@%8h\$tggn-3@tt\$+(+0\$-&e'

SECURITY WARNING: don't run with debug turned on in production!

DEBUG = True

ALLOWED_HOSTS = []

Application definition

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'MJNVSAI',  
]  
  
MIDDLEWARE = [  
    'django.middleware.security.SecurityMiddleware',  
    'django.contrib.sessions.middleware.SessionMiddleware',  
    'django.middleware.common.CommonMiddleware',  
    'django.middleware.csrf.CsrfViewMiddleware',  
    'django.contrib.auth.middleware.AuthenticationMiddleware',  
    'django.contrib.messages.middleware.MessageMiddleware',  
    'django.middleware.clickjacking.XFrameOptionsMiddleware',  
]  
  
ROOT_URLCONF = 'vrsec.urls'  
  
TEMPLATES = [  
    {  
        'BACKEND': 'django.template.backends.django.DjangoTemplates',  
        'DIRS': [BASE_DIR/"templates"],  
        'APP_DIRS': True,  
        'OPTIONS': {  
            'context_processors': [  
                'django.template.context_processors.debug',  
                'django.template.context_processors.request',  
                'django.contrib.auth.context_processors.auth',  
                'django.contrib.messages.context_processors.messages',  
            ],  
        },  
    ],  
]
```

```
    },  
    },  
]
```

```
WSGI_APPLICATION = 'vrsec.wsgi.application'
```

```
# Database
```

```
# https://docs.djangoproject.com/en/4.0/ref/settings/#databases
```

```
DATABASES = {  
    'default': {  
        'ENGINE': 'django.db.backends.sqlite3',  
        'NAME': BASE_DIR / 'db.sqlite3',  
    }  
}
```

```
# Password validation
```

```
# https://docs.djangoproject.com/en/4.0/ref/settings/#auth-password-validators
```

```
AUTH_PASSWORD_VALIDATORS = [  
    {  
        'NAME':  
'django.contrib.auth.password_validation.UserAttributeSimilarityValidator',  
    },  
    {  
        'NAME': 'django.contrib.auth.password_validation.MinimumLengthValidator',  
    },  
    {  
        'NAME':  
'django.contrib.auth.password_validation.CommonPasswordValidator',  
    },  
    {  
        'NAME':  
'django.contrib.auth.password_validation.NumericPasswordValidator',  
    },  
]
```



```
]
```

```
# Internationalization
```

```
# https://docs.djangoproject.com/en/4.0/topics/i18n/
```

```
LANGUAGE_CODE = 'en-us'
```

```
TIME_ZONE = 'UTC'
```

```
USE_I18N = True
```

```
USE_TZ = True
```

```
# Static files (CSS, JavaScript, Images)
```

```
# https://docs.djangoproject.com/en/4.0/howto/static-files/
```

```
STATIC_URL = 'static/'
```

```
# Default primary key field type
```

```
# https://docs.djangoproject.com/en/4.0/ref/settings/#default-auto-field
```

```
DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
```

```
models.py :
```

```
from django.db import models
```

```
# Create your models here.
```

```
class student(models.Model):
```

```
    name = models.CharField(max_length=100)
```

```
    branch = models.CharField(max_length=100)
```

```
    number = models.CharField(max_length=100)
```

```
    mail = models.CharField(max_length=100)
```

```
    mobile = models.IntegerField(max_length=100)
```

admin.py :

```
from django.contrib import admin
from MJNVSAI.models import student
# Register your models here.
```

```
admin.site.register(student)
```

forms.py :

```
from django import forms
from MJNVSAI.models import student
```

```
class Login(forms.ModelForm):
    class Meta:
        model = student
        fields = '__all__'
```

views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
from MJNVSAI.forms import Login
# Create your views here.
```

```
def form_view(request):
    objects = Login()
    if request.method == 'POST':
        objects = Login(request.POST)
    if objects.is_valid():
        objects.save(commit=True)
    return render(request, 'Index.html', {'objects' : objects})
```

MJNVSAI\urls.py :

```
from django.urls import path
from . import views
```

```
urlpatterns = [path('form', views.form_view, name='form_view')]
```

templates\Index.html :

```
<!DOCTYPE html>
<html>
<body>
  <form method="POST" >
    {%csrf_token %}
    {{objects.as_p}}
    <input type="submit" value="Submit" />
  </form>
</body>
</html>
```

vrsec\urls.py :

```
"""vrsec URL Configuration
```

The `urlpatterns` list routes URLs to views. For more information please see:

<https://docs.djangoproject.com/en/4.0/topics/http/urls/>

Examples:

Function views

1. Add an import: from my_app import views
2. Add a URL to urlpatterns: path("", views.home, name='home')

Class-based views

1. Add an import: from other_app.views import Home
2. Add a URL to urlpatterns: path("", Home.as_view(), name='home')

Including another URLconf

1. Import the include() function: from django.urls import include, path
2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))

```
"""
```

```
from django.contrib import admin
from django.urls import path,include
from MJNVSAI import views
```

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path(r'', include('MJNVSAI.urls'))
]
```

OUTPUT :

The screenshot shows the PyCharm IDE with the Django project 'DJANGO' open. The file explorer on the left shows the project structure, including 'models.py', 'admin.py', 'forms.py', 'views.py', 'urls.py', 'wsgi.py', 'manage.py', and 'migrations'. The main editor displays the 'models.py' file with the following code:

```
branch = models.CharField(max_length=100)
number = models.CharField(max_length=100)
# mail = models.CharField(max_length=100)
# mobile = models.IntegerField(max_length=100)

student
```

The terminal window at the bottom shows the following commands and output:

```
PS C:\Users\prave\PycharmProjects\DJANGO> cd vrsec
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec> pip install django
Requirement already satisfied: django in c:\python\python39\lib\site-packages (4.0.1)
Requirement already satisfied: tzdata in c:\python\python39\lib\site-packages (from django) (2021.5)
Requirement already satisfied: sqlparse>=0.2.2 in c:\python\python39\lib\site-packages (from django) (0.4.2)
Requirement already satisfied: asgiref<4,>=3.4.1 in c:\python\python39\lib\site-packages (from django) (3.5.0)
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec> python --version
Python 3.9.5
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec> django-admin --version
4.0.1
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec>
```

The screenshot shows the PyCharm IDE with the Django project 'DJANGO' open. The file explorer on the left shows the project structure, including 'models.py', 'admin.py', 'forms.py', 'views.py', 'urls.py', 'wsgi.py', 'manage.py', and 'migrations'. The main editor displays the 'main.py' file with the following code:

```
2
3 # Press Shift+F10 to execute it or replace it with your code.
4 # Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.
5
6
7 def print_hi(name):
8     # Use a breakpoint in the code line below to debug your script.
9     print(f'Hi, {name}') # Press Ctrl+F8 to toggle the breakpoint.
10
11
12 # Press the green button in the gutter to run the script.
13 if __name__ == '__main__':
14     print_hi('PyCharm')
15
16 # See PyCharm help at https://www.jetbrains.com/help/pycharm/
17
18 # Project_name ==> vrsec
19 # App_name ==> MJNVSAI
```

The terminal window at the bottom shows the following commands and output:

```
PS C:\Users\prave\PycharmProjects\DJANGO> django-admin --version
4.0.1
PS C:\Users\prave\PycharmProjects\DJANGO> python --version
Python 3.9.5
PS C:\Users\prave\PycharmProjects\DJANGO> django-admin startproject vrsec
PS C:\Users\prave\PycharmProjects\DJANGO> django-admin startapp MJNVSAI
PS C:\Users\prave\PycharmProjects\DJANGO> cd vrsec
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec> django-admin startapp MJNVSAI
PS C:\Users\prave\PycharmProjects\DJANGO\vrsec>
```

The screenshot shows the PyCharm IDE interface. The top toolbar includes menus like File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The project explorer on the left shows the 'Django' project with files like main.py, settings.py, models.py, admin.py, forms.py, views.py, and urls.py. The terminal window at the bottom displays the following output:

```
Apply all migrations: MjNVSAI, admin, auth, contenttypes, sessions
Running migrations:
  Applying MjNVSAI.0001_initial... OK
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying admin.0003_logentry_add_action_flag_choices... OK
  Applying contenttypes.0002_remove_content_type_name... OK
  Applying auth.0002_alter_permission_name_max_length... OK
  Applying auth.0003_alter_user_email_max_length... OK
  Applying auth.0004_alter_user_username_opts... OK
  Applying auth.0005_alter_user_last_login_null... OK
  Applying auth.0006_require_contenttypes_0002... OK
  Applying auth.0007_alter_validators_add_error_messages... OK
  Applying auth.0008_alter_user_username_max_length... OK
  Applying auth.0009_alter_user_last_name_max_length... OK
  Applying auth.0010_alter_group_name_max_length... OK
  Applying auth.0011_update_proxy_permissions... OK
  Applying auth.0012_alter_user_first_name_max_length... OK
  Applying sessions.0001_initial... OK
PS C:\Users\prave\PycharmProjects\Django\vrsec> python manage.py createsuperuser
Username (leave blank to use 'krishna'): sai2a0
Email address: sai.doco2@gmail.com
Password:
Password (again):
Superuser created successfully.
PS C:\Users\prave\PycharmProjects\Django\vrsec>
```

The bottom status bar shows the file encoding as UTF-8, 4 spaces, and Python 3.9. The system clock indicates 12:01 PM on 2/4/2022.

Name:

Branch:

Number:

The screenshot displays a web browser window with the Django administration interface. The browser's address bar shows the URL `127.0.0.1:8000/admin/MJNVSAI/student/3/change/`. The page title is "Django administration". The left sidebar contains a navigation menu with the following items: "Start typing to filter...", "AUTHENTICATION AND AUTHORIZATION" (with sub-items "Groups" and "Users"), "MJNVSAI" (with sub-item "Students"), and "Students". The main content area is titled "Change student" and "student object (3)". It contains three input fields: "Name:" with the value "kolluri Mounav", "Branch:" with the value "Information Technology", and "Number:" with the value "208W1A1291". At the bottom of the form, there are four buttons: "Delete" (red), "Save and add another", "Save and continue editing", and "SAVE". The Windows taskbar at the bottom shows the search bar, task view, and several application icons. The system clock indicates the time is 12:23 PM on 2/4/2022.

student object (3) | Change student

WELCOME, SAIZAO | VIEW SITE / CHANGE PASSWORD / LOG OUT

Home » MJNVSAI » Students » student object (3)

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

MJNVSAI

Students + Add

Change student

student object (3)

NAME: kolluri Mounav

BRANCH: Information Technology

NUMBER: 208W1A1291

Delete Save and add another Save and continue editing SAVE

Type here to search

12:23 PM 2/4/2022

WEEK – 9

Aim : Apply CRUD operations in Django form

1. CRUD operations on the form.

CRUD Meaning: CRUD is an acronym that comes from the world of computer programming and refers to the four functions that are considered necessary to implement a persistent storage application: create, read, update and delete.

C === > CREATE ===> INSERT

R ===> READ ===> SELECT

U ===> UPDATE ===> EDIT

D ===> DELETE ===> DELETE

READ :

Name:

Branch:

Number:

Update :

Step 1: Select and open one of the objects created.
(say student object(1))

The screenshot shows a web browser window with the Django administration interface. The page title is "Django administration" and the user is logged in as "SAI2A0". The breadcrumb trail is "Home > Mjnv Sai > Students > student object (3)". The left sidebar shows the "Students" menu item highlighted. The main content area is titled "Change student" and "student object (3)". The form fields are:

- Name: kollurt Mounav
- Branch: Information Technology
- Number: 208W1A1291

At the bottom of the form, there are three buttons: "Delete", "Save and add another", and "Save and continue editing". The "Save and continue editing" button is highlighted in blue.

Step 2: Select the Save and continue editing button to update the object.

This screenshot is identical to the one above, showing the "Change student" form for "student object (3)". The form fields are:

- Name: kollurt Mounav
- Branch: Information Technology
- Number: 208W1A1291

The "Save and continue editing" button is highlighted in blue.

Step 3: The change is updated successfully.

The screenshot shows a web browser window with the Django administration interface. The browser's address bar displays the URL: 127.0.0.1:8000/admin/MJNVSAI/student/3/change/. The page title is 'Django administration'. The left sidebar shows the navigation menu with 'Students' selected. The main content area is titled 'Change student' and 'student object (3)'. It contains three input fields: 'Name' (kollurt Mounav), 'Branch' (Information Technology), and 'Number' (208W1A1291). Below the fields are three buttons: 'Delete', 'Save and add another', and 'Save and continue editing'. A 'HISTORY' button is also visible. The bottom of the browser window shows the Windows taskbar with the search bar and various application icons.

DELETE:

Step 1: Select the student object to delete. (say student object(9))

The screenshot shows the Django administration interface after deleting a student object. A green message banner at the top states: 'The student "student object (8)" was deleted successfully.' The left sidebar shows the navigation menu with 'Students' selected. The main content area is titled 'Select student to change'. It features a table with 6 students listed, each with a checkbox and a 'Go' button. The students are: student object (14), student object (13), student object (12), student object (11), student object (10), and student object (9). Below the table, it says '6 students'. There is an 'ADD STUDENT +' button in the top right corner.

WEEK -11

Aim: Django Project (URL Shortner)

Code:

Main file (shortner)

admin.py:

```
from django.contrib import admin
from .models import Url

# Register your models here.
admin.site.register(Url)
```

apps.py:

```
from django.apps import AppConfig

class ShortnerConfig(AppConfig):
    name = 'shortner'
```

models.py:

```
from django.db import models

# Create your models here.
class Url(models.Model):
    link = models.CharField(max_length=10000)
    uuid = models.CharField(max_length=10)
```

urls.py:

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.index, name='index'),
    path('create', views.create, name='create'),
    path('<str:pk>', views.go, name='go')
]
```

views.py:

```
from django.shortcuts import render, redirect
import uuid
from .models import Url
from django.http import HttpResponse

# Create your views here.
def index(request):
    return render(request, 'index.html')

def create(request):
    if request.method == 'POST':
        link = request.POST['link']
        uid = str(uuid.uuid4())[:5]
        new_url = Url(link=link, uid=uid)
        new_url.save()
        return HttpResponse(uid)

def go(request, pk):
    url_details = Url.objects.get(uid=pk)
    return redirect('https://' + url_details.link)
```

URLSHORTNER:

urls.py:

```
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('shortner.urls'))
]
```

OUTPUT: