

[Music]

[Applause]

[Music]

thank you

good morning students myself doctor in
sirisha associate professor from mlr
Institute of Technology CRC Department
today I am here to tell you about web
Technologies

and how a web designing will be done
using a web Technologies which is HTML
HTML is a markup language which is used
for Designing purpose web designing now
it is every organization or every
startup company or if you take any
organization so they will have to
maintain a website so for Designing that
website what is used so that programming
language is nothing but your HTML which
we call as hypertext markup language
so if you see here these are the
textbooks you can follow so web
Technologies

and also web programming by Chris Bates
these are the two textbooks you can
refer for any topics related to web
Technologies not only HTML you can go
through XML and also different clients
are programming languages which are
JavaScript and uh Advanced JavaScript
and

whatever the clients have programming
languages you have and also the server
side programming languages like servlet
such jsp and you have a PHP server side
scripting language also in web
technology which is used for web
designing for that you can go with the
PHP textbook complete reference
so this is about the textbook part
coming to HTML

so what is HTML as I told you it's a
markup language which is
the markup language why we are calling
it as a marker languages so why we are
calling it as a markup languages every
web designing will be used in the HTML
with its latest version in this markup
language we use a programming language
where do you use the tags which will be
written in between these less than and

greater than symbols so if you're writing a very first foremost uh tag we use as a HTML so that is why it is named as a HTML markup language for Designing the web documents or web pages we can call so it's a hypertext markup language and a set of all markup tags tag is nothing but as I told you tag is nothing but which you read in between the less than and greater than symbols every HTML document will start with a HTML tag followed by there are so many user defined tags so you have a HTML tags which are user defined so user defined as nothing but values sorry not user defined it as a predefined which are already defined and those you can be use here those are to be used here for programming so each HTML tag describes different document content that means what whatever the requirement of your web page is there accordingly according to the requirement we designed for which we use the tag so it was first developed by Tim bernersley in 1990 Tim berners-lee who designed us HTML okay so HTML is a hypertext markup language where you call it as a markup language because it is we are using the tags there then first example so how do you write a HTML program HTML program is written with the first the limiter tag which is called as uh exclamatory Mark doctype HTML which you start with this HTML but it is not actually a HTML tag but you use it then HTML as a first and foremost tag you have to use for the programming stuff to start your program and wherever you start the HTML tag it has to close it at the end first show whatever you are starting so it should be closed here so this we are calling it as a well-formed language that means whatever the tags you are using here so those tags what wherever you are starting that should be closed here okay then head part head is the next tag head is a next attack head means

where you have to Define what is the program actually about if you wanted to describe the program by seeing the program itself they can identify so what is the title title is the only tag that you will have inside this header tag first HTML is started and it is closed then head to tag is started and it is closed in between the header tag you will have is the title tag wherever you are starting your title tag it has to be closed then and there itself within your head tag okay so every starting tag will be normally written like this so HTML in between less than and greater than symbol but whenever you wanted to close the tag it should be followed by the forward slash HTML the same tag you have to write it here

then body part once the head part is over each HTML is having a two body parts HTML in between you will have a head part

okay

and then you will have a body part body part is where you write the actual logic so this is the structure of the HTML

HTML starting tag ending tag in between you will have two tags one is head part the other one is a body part head part is where you write the title to describe what the program is all about then HTML body defines the actual program content okay then so here is a body so body part we have taken a P tag p is also a predefined tag which defines paragraph p means paragraph tag so this paragraph tag is used to display the content that you are giving in between the P tags to display it in as a output so what is the content here this is some text so it is output of this program the output of every HTML program can be seen on uh your uh can be seen on the browser so any browser is compatible with HTML to see the output so the output of this particular program is nothing but the paragraph so you have a browser okay and the browser is having a title bar on the title you will see your title what is the title my first HTML my first

HTML page

then what is the output body what is the logic you are writing in the body P tag that is this is some text so this is sum text so this will be the output of the program okay this is a basic HTML program that we are going to write where you have two parts one part is a head part the other part is the title part head part will have the only one tag title tag body part you will write the actual logic that is to be displayed on your web page

okay so this is the output with the title and also with the text in HTML you have a doctype declaration Docker type declaration it is nothing but it defines what is a HTML document defines a complete type of document okay but uh it is not a tag so here these are the tags but hey doctor we are not writing like this okay so just so this will be not a tag HTML had the title body H1 these are all tags so whatever this part is they're all the ending tags and whatever this part we have these are the starting tags so starting and ending as every tag in HTML will have starting tag and ending type starting tag will be written in between less than greater than symbol wherever ending tag you will have all forward slashes so in between this you will be describing but what is about the HTML tag it defines the HTML document headbar provide you the header like heading with the title tag so what is the title that as a heading you will give the complete information about the document body part describes the actual Logic the content which is to be visible on your web page so whenever you are designing the design part so the display whatever you have to display that should be

ah that that logic should be written here

H1 is nothing but heading tag like if you have suppose in this screen HTML is a heading to get that heading we will write H1

uh say HTML then closing tag

so whenever you are writing in the H1
say font is something like this the
output is like this
okay since you have written Capital so
however you are giving the case here
here so that will be displayed here okay
suppose if you give H2
H2 HTML and its closing tag then what
happens H1 will be giving you the larger
font size H2 will be giving you the
smaller font size like this
like that from H1 H2 to H6 you have if
you write HTML with H6 so this will be
the least heading size
HTML this is the least heading size you
will get so if you use H3 it will be
somewhat smaller than this H2 and H1 and
if you use H4 H4 will be smaller than
again these three and if you use uh H6
it will be least smallest than always
okay so these are all H1 H2 up to H6
these are all called as heading text
okay
so why I am talking about the heading
tags is every application whatever you
wanted to design in the web page so you
have to display the content right so
whenever you wanted to display the
content first or an obvious thing that
everyone will do is giving the heading
when heading has to be given so we will
use all these heading tags which are up
to H6 so h12 H6 are defined these are
all predefined again
so as I told you the tag name will be
given here HTML head title body whatever
we have discussed these are all nothing
but tag names so tag name is nothing but
whatever we are giving in between the
angular brackets okay the body web page
body is nothing but the display content
that we are writing then the tag name so
tag name you have to close it whatever
the tag name you are using here that
should be closed here so suppose you are
using head here so closing time you have
to use header tag here like this so
every starting time will have its own
ending tag which is written in between
the angular brackets when you write in
between the angular brackets that means

it is a tag okay so that's why the name HTML is defined as a markup language then the first tag in a page is a start and opening tag second tag will be ending closing tag ending tag is just like the starting time but we will use slash there to differentiate it from the starting tag therefore we identify it as an ending tag if there is a slash before it

then

so first and foremost line that defines the type of document can be given like this so either it may be given in capital letters HTML either it can be given in smaller case or upper case and these four styles mix of your keyboard sensitive it is uppercase and lowercase mix of all so this is commonly used anything any way you can use and in HTML5 only it allows us HTML in the uppercase and HTML in the lower case this declaration is available okay then

while we are writing doctype doctype is nothing but only to define the document of your HTML okay the browser doesn't display it as a HTML type suppose if you are writing a tag head

okay so in the output

so will this head will display no so whatever you are writing in between the title tag it will be displayed on the title bar

this title okay so tag what is it what it is doing it is something like it is parsing and it is giving you how the output should be displayed okay this is a doctype helps the browser to display a web page correctly so to how to display the content so that will be defined by this doctype so it's not case sensitive all cases are acceptable as I told you can give it an uppercase all lower case or mix of your apparent logo cases that how to write your HTML so you can use any of the editors normally we'll go over the notepad

um in the institution the basic thing they can also go with other editors like Zoom viewer web Microsoft expression web

copy cup HTML editor and edit plus plus and notepad so these are the basic uh like editors that we use where you type your program and every HTML program should be saved with DOT HTML dot HTM anything so dot HTML if you save it so it will be saved in the file format of browser okay so when you double click on the browser you can see the output on the browser so steps to create a web page so open the notepad first you have to open the notepad then notepad is nothing but it is a editor where you write your program there's a notepad so HTML part you write the code say dot type HTML title so here we are using two tags so what this will be the output so output variable bit will be displayed it will be displayed on the web browser so web browser index.htm where we are giving this index as a title whatever index you are giving as a title that is displayed on your title bar and H1 and P tags what is the use of H1 H1 is the heading tag and P is a paragraph tag right so H1 when you are giving the first heading it will be displayed in the larger font because you are giving it as a H1 so there's the output okay so as you are seeing the output in the browser P tag is a paragraph tag what is the content that you have given for paragraph my first paragraph so that will be given here my first paragraph say the font or difference so here font style will be the larger one and here it is a smaller one but here this is not a heading this is heading so that's why we are giving it as a paragraph tag with a basic uh text size it will be displayed okay so this is the way to write a program so program will be written on the notepad and the notepad will be saved in any location in the system with the dot HTM or dot HTML then just double click on that you can see the output in the browser so these are the ways you can save your program either dot HTM or dot HTML and open that in the browser this

will be displayed okay so tell us about how we write the program so HTML structure will have it starts with the HTML tag then heading tag inside heading tag you will have a title tag then after heading is closed then only your body will get started body tag when you start it it has to be closed before your HTML is getting closed okay so this is a program basic program where you are writing a P tag where you are displaying some paragraph So P here stands for see this is well formed why well formed you started your HTML you close at the end and before after that you started your title and Title Here can also be written in between the header tag and it should be closed after your title is closed so here head can be closed then body then P tag P tag it is start and it has to be closed before your body is getting close because it has to Define a paragraph if you are not closing here then you may get a irrelevant output on the browser so to get a specific way of displaying your output on the screen on the browser then you have to use this well formed so you have to close it properly okay so if it is not well formed then you can you cannot see the appropriate output on the screen then so you have a head attack body tag inside your HTML tag so these are the basic structures but irrespective of those things we have all other tags also like P tag is used of a paragraph tag then here is a heading as I told you H1 to H6 we have different headings so you start with the doctype where it defines how to define a document HTML document HTML tag directly here a body part so if you see in the browser you don't have any title bar here we have not defined because here title is missing so it's optional to Define it to explain about the program what actually it is you have to give it okay so otherwise you're writing in the body then also you'll get the output but

without the title so here what is the
body body is written in between in
between the body you have H1 H2 H3 H4 H5
H6 if you see the content is same head
one is of larger largest font
okay somewhat smaller again somewhat
smaller smaller smaller and this is the
least smaller
least a smallest font okay so font size
will be varying accordingly for the
given headings clear so only headsets
because
um some text size should be followed to
display in the web browser if you give
head 7 h8 and all so that font we don't
use in the displaying the content in the
web page so obviously head6 will be the
least font that we have to use
further visibility and this tag
again a paragraph tag which we have
discussed but there are different ways
we have given it here if you see the
content this is a paragraph
we have given it an at a stretch one
line statement but here if you see this
we have given a lot of space tab spaces
and then we have continued as a
paragraph So what is the difference
between this and this in the output so
both and if you see here this here also
you have a smallest space and this is a
paragraph where you have not closed the
P tag and here no ending tag okay here
no ending type
and here
no P tag right but here what is
happening so whatever the spaces you are
giving so it is displaying this is a
paragraph in a statement at a stretch
okay sometimes uh if you are giving a
slash tag it will be taking it as a
paragraph sometimes if you are not
closing also or if it was a basic tags
so you are getting the output this is a
paragraph is the output you are getting
but even though you have given spaces
here these spaces are negligible here so
it will Define in a single sentence so
that is the beauty of your paragraph tag
but if you want the space to be
displayed how you are giving and in that

way only if you wanted to display then we have other tags to display in that format but PE time will not take spaces will not consider tab spaces and also if you are not closing it also it is working HTML images so if you wanted to display an image every website if you see at the background or at the top or right or left to the web page you will have some images to be displayed so that means you have to upload the image to the web page so now you have to do that HTML images image tag either you can also give completely image image this has a tag this will be having a ending tag okay and or IMG tag is also okay you can also use IMG tag so when you're using the the source file source file SRC SRC is nothing but Source here see every tag are having several attributes okay we have to define the properties like how if you take a human being what is his height what is his weight what is his color okay all that are nothing but the attributes of a human like that in the same way you will have attributes for the tags that we are going to use so what are those tags image tag is having source and ALT width height as attributes what is Source in your local system you have say in downloads in downloads you have something like image one this is the file name I'm just giving roughly so you have some jpeg format jpg this you have to load it into your uh program then only you can see in the output so how you can load it using your Source tag what is that source so here sample.jpg is written say you have uh saved that sample dot jpg in your downloads so you can give the complete path or you can give the relative or absolute path both relative or absolute paths like only the name or the complete path like um C drive slash some complete path downloads or slash sample.jpg like this you can give completely our absolute path is also

okay

okay so that is about the source now

what is alt alt is nothing but

alternative

alternative alternative means suppose if your browser is not compatible with the image that you have given image format that you have uploaded then what happens is in the place of that image the content should be displayed suppose I am giving the image of a flower okay if that flower is not compatible then here I want

to display

flower.gpg the name

like that the alternative name we are giving is when there is a failure in uploading the image so that here it is defined as a sample dot in if you see here every tag have a attribute in the format attribute equal to within the double quote value

okay so source is a attribute this is the value

this is the attribute so here this is the attribute this is the value

this is the attribute this is a value so

what is the width width is one or four

say what is suppose if you have a browser So within the browser if I want

only this much so say its height and

width is defined here like 2020. now

here it is given like one not four say

some part of your page will be used for

displaying so this is what height and

weight again here this is attribute this

is the value so every tag is having its own attributes and values which can be

defined for defining the properties of a

of a tank that you are using say here

the example is a image tag so image tag

can be used can be given using IMG or

image the complete spelling okay what

are the attributes means source and ALT

width height irrespective of this you have

also several other attributes I will

discuss slowly

so these are the basic tags that you

have to know uh how to for how to write

a HTML program we have also other

tags like defining um

a table okay defining its cells what are
its roles okay and all such we'll
discuss in the further classes I hope
you understood the basic structure of
how to write a HTML program thank you
all