[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 jsps and you have a PHP server size
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 tax
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 div defer it from the
starting tag therefore we identify it as
a ending tag if there is a slash before
it
then
so first and foremost line that dark
type so doctype can be given like this
so either it may be given this dock type
will be completely given in capital
letter HTML either it can be given
smaller case or upper case and these
four Styles mix of your K 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 dock type 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 HDMI 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 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 irrespect 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