**Q1: What is image map tag, Picture Element and how we can add image in background without using CSS? Give one Example of each.**

**Map Tag**

The <map> tag is used to define an image map. An image map is an image with clickable areas.

The required name attribute of the <map> element is associated with the <img>'s usemap attribute and creates a relationship between the image and the map.

The <map> element contains a number of <area> elements, that defines the clickable areas in the image map.

Example:

<img src="workplace.jpg" alt="Workplace" usemap="#workmap" width="400" height="379">

<map name="workmap">

<area shape="rect" coords="34,44,270,350" alt="Computer" href="computer.htm">

<area shape="rect" coords="290,172,333,250" alt="Phone" href="phone.htm">

<area shape="circle" coords="337,300,44" alt="Cup of coffee" href="coffee.htm">

</map>

Picture Element

The HTML <picture> element allows you to display different pictures for different devices or screen sizes.

The HTML <picture> element gives web developers more flexibility in specifying image resources.

The <picture> element contains one or more <source> elements, each referring to different images through the srcset attribute. This way the browser can choose the image that best fits the current view and/or device.

Each <source> element has a media attribute that defines when the image is the most suitable.

Example:

<picture>

<source media="(min-width: 650px)" srcset="img\_food.jpg">

<source media="(min-width: 465px)" srcset="img\_car.jpg">

<img src="img\_girl.jpg">

</picture>

**Q2:List Down all tags in HTML and HTML4?**

**HTML Tags:**

<!--...--> Defines a comment

<!DOCTYPE> Defines the document type

<a> Defines a hyperlink

<abbr> Defines an abbreviation or an acronym

<acronym> Not supported in HTML5. Use <abbr> instead.

Defines an acronym

<address> Defines contact information for the author/owner of a document

<applet> Not supported in HTML5. Use <embed> or <object> instead.

Defines an embedded applet

<area> Defines an area inside an image map

<article> Defines an article

<aside> Defines content aside from the page content

<audio> Defines embedded sound content

<b> Defines bold text

<base> Specifies the base URL/target for all relative URLs in a document

<basefont> Not supported in HTML5. Use CSS instead.

Specifies a default color, size, and font for all text in a document

<bdi> Isolates a part of text that might be formatted in a different direction from other text outside it

<bdo> Overrides the current text direction

<big> Not supported in HTML5. Use CSS instead.

Defines big text

<blockquote> Defines a section that is quoted from another source

<body> Defines the document's body

<br> Defines a single line break

<button> Defines a clickable button

<canvas> Used to draw graphics, on the fly, via scripting (usually JavaScript)

<caption> Defines a table caption

<center> Not supported in HTML5. Use CSS instead.

Defines centered text

<cite> Defines the title of a work

<code> Defines a piece of computer code

<col> Specifies column properties for each column within a <colgroup> element

<colgroup> Specifies a group of one or more columns in a table for formatting

<data> Adds a machine-readable translation of a given content

<datalist> Specifies a list of pre-defined options for input controls

<dd> Defines a description/value of a term in a description list

<del> Defines text that has been deleted from a document

<details> Defines additional details that the user can view or hide

<dfn> Specifies a term that is going to be defined within the content

<dialog> Defines a dialog box or window

<dir> Not supported in HTML5. Use <ul> instead.

Defines a directory list

<div> Defines a section in a document

<dl> Defines a description list

<dt> Defines a term/name in a description list

<em> Defines emphasized text

<embed> Defines a container for an external application

<fieldset> Groups related elements in a form

<figcaption> Defines a caption for a <figure> element

<figure> Specifies self-contained content

<font> Not supported in HTML5. Use CSS instead.

Defines font, color, and size for text

<footer> Defines a footer for a document or section

<form> Defines an HTML form for user input

<frame> Not supported in HTML5.

Defines a window (a frame) in a frameset

<frameset> Not supported in HTML5.

Defines a set of frames

<h1> to <h6> Defines HTML headings

<head> Contains metadata/information for the document

<header> Defines a header for a document or section

<hr> Defines a thematic change in the content

<html> Defines the root of an HTML document

<i> Defines a part of text in an alternate voice or mood

<iframe> Defines an inline frame

<img> Defines an image

<input> Defines an input control

<ins> Defines a text that has been inserted into a document

<kbd> Defines keyboard input

<label> Defines a label for an <input> element

<legend> Defines a caption for a <fieldset> element

<li> Defines a list item

<link> Defines the relationship between a document and an external resource (most used to link to style sheets)

<main> Specifies the main content of a document

<map> Defines an image map

<mark> Defines marked/highlighted text

<meta> Defines metadata about an HTML document

<meter> Defines a scalar measurement within a known range (a gauge)

<nav> Defines navigation links

<noframes> Not supported in HTML5.

Defines an alternate content for users that do not support frames

<noscript> Defines an alternate content for users that do not support client-side scripts

<object> Defines a container for an external application

<ol> Defines an ordered list

<optgroup> Defines a group of related options in a drop-down list

<option> Defines an option in a drop-down list

<output> Defines the result of a calculation

<p> Defines a paragraph

<param> Defines a parameter for an object

<picture> Defines a container for multiple image resources

<pre> Defines preformatted text

<progress> Represents the progress of a task

<q> Defines a short quotation

<rp> Defines what to show in browsers that do not support ruby annotations

<rt> Defines an explanation/pronunciation of characters (for East Asian typography)

<ruby> Defines a ruby annotation (for East Asian typography)

<s> Defines text that is no longer correct

<samp> Defines sample output from a computer program

<script> Defines a client-side script

<section> Defines a section in a document

<select> Defines a drop-down list

<small> Defines smaller text

<source> Defines multiple media resources for media elements (<video> and <audio>)

<span> Defines a section in a document

<strike> Not supported in HTML5. Use <del> or <s> instead.

Defines strikethrough text

<strong> Defines important text

<style> Defines style information for a document

<sub> Defines subscripted text

<summary> Defines a visible heading for a <details> element

<sup> Defines superscripted text

<svg> Defines a container for SVG graphics

<table> Defines a table

<tbody> Groups the body content in a table

<td> Defines a cell in a table

<template> Defines a container for content that should be hidden when the page loads

<textarea> Defines a multiline input control (text area)

<tfoot> Groups the footer content in a table

<th> Defines a header cell in a table

<thead> Groups the header content in a table

<time> Defines a specific time (or datetime)

<title> Defines a title for the document

<tr> Defines a row in a table

<track> Defines text tracks for media elements (<video> and <audio>)

<tt> Not supported in HTML5. Use CSS instead.

Defines teletype text

<u> Defines some text that is unarticulated and styled differently from normal text

<ul> Defines an unordered list

<var> Defines a variable

<video> Defines embedded video content

<wbr> Defines a possible line-break

**HTML4 Tags:**

<!--...--> Specifies a comment

<!DOCTYPE> Specifies the document type

<a> Specifies an anchor

<abbr> Specifies an abbreviation

<acronym> Specifies an acronym

<address> Specifies an address element

<applet> Deprecated. Specifies an applet

<area> Specifies an area inside an image map

<b> Specifies bold text

<base> Specifies a base URL for all the links in a page

<basefont> Deprecated. Specifies a base font

<bdo> Specifies the direction of text display

<bgsound> Specifies the background music IE

<big> Specifies big text

<blink> Specifies a text which blinks NS

<blockquote> Specifies a long quotation

<body> Specifies the body element

<br> Inserts a single line break

<button> Specifies a push button

<caption> Specifies a table caption

<center> Deprecated. Specifies centered text

<cite> Specifies a citation

<code> Specifies computer code text

<col> Specifies attributes for table columns

<colgroup> Specifies groups of table columns

<comment> Puts a comment in the document IE

<dd> Specifies a definition description

<del> Specifies deleted text

<dfn> Specifies a definition term

<dir> Deprecated. Specifies a directory list

<div> Specifies a section in a document

<dl> Specifies a definition list

<dt> Specifies a definition term

<em> Specifies emphasized text

<embed> Deprecated. Embeds an application in a document IE & NS

<fieldset> Specifies a fieldset

<font> Deprecated. Specifies text font, size, and color

<form> Specifies a form

<frame> Specifies a sub window (a frame)

<frameset> Specifies a set of frames

<h1> to <h6> Specifies header 1 to header 6

<head> Specifies information about the document

<hr> Specifies a horizontal rule

<html> Specifies an html document

<i> Specifies italic text

<iframe> Specifies an inline sub window (frame)

<ilayer> Specifies an inline layer NS

<img> Specifies an image

<input> Specifies an input field

<ins> Specifies inserted text

<isindex> Deprecated. Specifies a single-line input field

<kbd> Specifies keyboard text

<keygen> Generate key information in a form

<label> Specifies a label for a form control

<layer> Specifies a layer NS

<legend> Specifies a title in a fieldset

<li> Specifies a list item

<link> Specifies a resource reference

<map> Specifies an image map

<marquee> Create a scrolling-text marquee IE

<menu> Deprecated. Specifies a menu list

<meta> Specifies meta information

<multicol> Specifies a multicolumn text flow NS

<nobr> No breaks allowed in the enclosed text

<noembed> Specifies content to be presented by browsers that do not support the <embed> tag NS

<noframes> Specifies a noframe section

<noscript> Specifies a noscript section

<object> Specifies an embedded object

<ol> Specifies an ordered list

<optgroup> Specifies an option group

<option> Specifies an option in a drop-down list

<p> Specifies a paragraph

<param> Specifies a parameter for an object

<plaintext> Deprecated. Render the raminder of the document as preformatted plain text

<pre> Specifies preformatted text

<q> Specifies a short quotation

<s> Deprecated. Specifies strikethrough text

<samp> Specifies sample computer code

<script> Specifies a script

<select> Specifies a selectable list

<spacer> Specifies a white space

Q3: Difference Between HTML and xHTML?

HTML:

HTML or HyperText Markup Language is the main markup language for creating web pages and other information that can be displayed in a web browser.

XHTML:

XHTML (Extensible HyperText Markup Language) is a family of XML markup languages that mirror or extend versions of the widely used Hypertext Markup Language (HTML), the language in which web pages are written.

**Difference:**

HTML and XHTML are both languages in which web pages are written. HTML is SGML-based while XHTML is XML-based. They are like two sides of the same coin. XHTML was derived from HTML to conform to XML standards. Hence XHTML is strict when compared to HTML and does not allow user to get away with lapses in coding and structure.

The reason for XHTML to be developed was convoluted browser specific tags. Pages coded in HTML appeared different in different browsers.