

EASTERN MEDİTERRANEAN UNİVERSİTY

SCHOOL OF COMPUTING AND TECHNOLOGY

ITEC102 – INFORMATION TECHNOLOGIES



SUBJECT11– WEB DESIGN



Aim Of the Course

The aim of the coure, to have information about

- Definition about web design,
- Examples of the basic software languages used in web programming,
- Web design program example,
- File operations,
- Create a document,
- Adding and formatting the text,
- Working with tables,
- Making add-ons to the document
- Creating links between the documents,
- $\ensuremath{\circ}$ Viewing a document in a web browser



•Web design is defined as the digital editing of content for individuals or organizations and viewing of these content in web browsers.

•Web designs can consist of both graphical and text-based content.

 All shared content needs to be translated into a programming language that web browsers can read.





•Web sites are **official information channels** for individuals and institutions.

•With the increase in internet speed, website content has started to enrich.

• Text-based content is replaced by high-resolution photos, sound files, and videos.

• The content in the web environment is also used for **educational activities** and continues to be developed.





•When creating web pages, the content itself is as important as the programming languages to use.

•Websites; It consists of basic sections such as a content area, header information, subtitle information, and content menu list

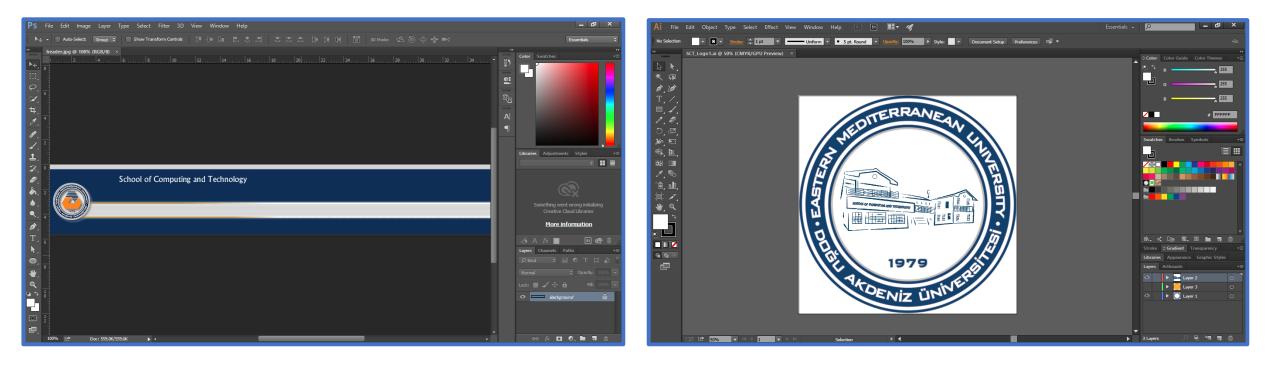
• The designs of the websites are usually started by drawing on **paper** with a **pencil**.

•Visual design programs such as Adobe Photoshop and Adobe Illustrator can be used in the preparation of visual content.



Web beowser window Carrier area Title information field Content menu Content area Subtitle field		
	A website designed using paper and pencil	





A visual from the Adobe Photoshop CC 2015 program

An image from Adobe Illustrator CC 2015 program



• Different software languages can be used to create web pages.

OHTML (HyperText Markup Language), is a markup language used to create web page documents. HTML is not a programming language.^[2]

• Paragraf, is used to define the content like title and list. Web browsers, process HTML code and display them to the user.

OHTML documents have a * .html extension.



[2] Robbins, J. N. (2012). Learning web design: A beginner's guide to HTML, CSS, JavaScript, and web graphics. " O'Reilly Media, Inc.".



•When creating HTML content itself, **CSS** (Cascading Style Sheets) is used to specify how content will look ^{2]}

• The contents in the HTML document can be visualized with the help of styles. Coloring of text information can be given as an example.

CSS styles; It can be processed into HTML documents or can be created in documents with
 * .css extension





oJS (Javascript) is the command language used to make a web page dynamic.^[2]

 Usually, JS codes are run on the client side and not on the server computer. A client is the name given to a user computer that is located on a network and that is serving from the server computer.

 Using JS language; The form information that is filled out on the web can be checked without being sent to the server computer or the previously entered information can then be remembered by the web

• The programs prepared in JS can be called from the * .js file or embedded in HTML blocks with HTML extensions..





•**PHP** (Hypertext Preprocessor) is an object-oriented programming language that runs on a server.^[2]

• PHP is an **open source programming language** with advanced database support..

OIn addition, programs written in PHP can be created in * .php documents and embedded in HTML blocks..

php</th <th></th>	
echo " Hello World ";	
?>	



MySQL (My Structured Query Language) is a relational database management system.

• **Database management system;** is a software designed to identify, create, modify, use databases and perform other operational activities.

•**Relational database;** This is an example of a database where data is stored on relational tables, rather than irregularly, and the relationships between tables are provided with the help of keys.

olt can be used with many programming languages such as PHP

SELECT Name, Surname	
FROM Students	
WHERE Age > 18	



•After the **WAMP** (Windows Apache MySQL PHP) server software is installed on the computer, the PHP and MySQL commands on the virtual server can be developed and run

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	Sorgu sonuçları işlemleri				
	🚔 Yazdır 👫 Panoya kopyala 📖 Dışa aktar 🏭 Çizelge göster 🔣 Görünüm oluştur				
	8				
	Konsol				
	Example of a database created on a WAMP server		An example of how database information is displ	ayed in a web browser with PHP	



Microsoft Expression Web 4

• **Microsoft Expression Web 4** is a code editor used by designers and software developers to create and edit web pages.. [1]

•With Microsoft Expression Web 4, documents can be created using HTML, CSS, XML, JavaScript, ASPX and PHP.

•Visual elements can be edited on the **Design** screen and commands can be processed on the **Code** screen

•On the code screen, misspelled commands are displayed to the user by the program.





Microsoft Expression Web 4

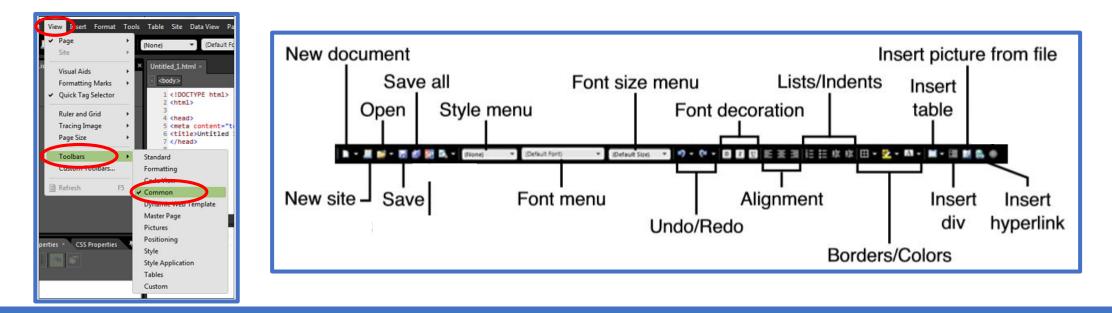
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		<pre>div></pre>
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Summary	STORY OF THE TEAM	New Style Options 🔻
Applied Rules	Content P	Attach Style Sheet
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A website prepared in the Microsoft Expression Web 4 program



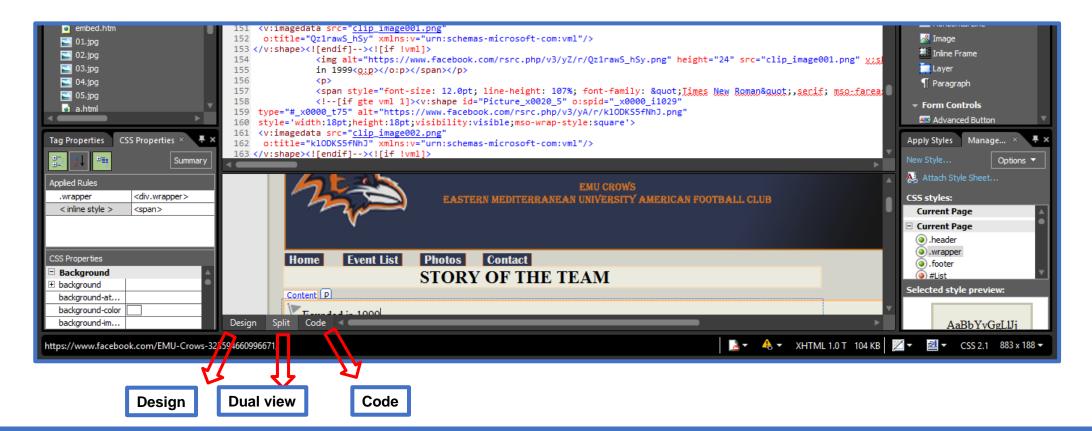
 Microsoft Expression Web 4 can be used as a word processing program. The Common toolbar contains features that users use most on the design screen

• To enable the **General toolbar**, select Toolbars from the **View tab** and click the **Common button** from the drop-down list.





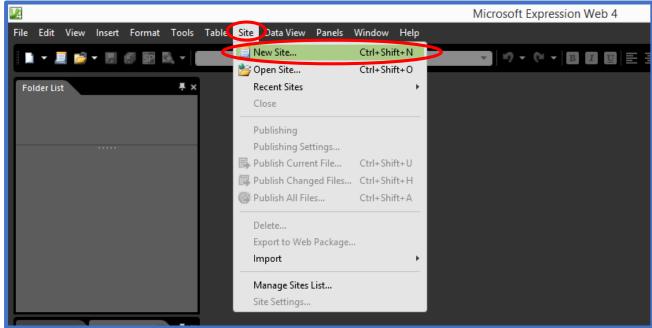
• Buttons at the bottom of the window are used to switch between **Design** and **Code** screens





•A **folder** must be created before the document can be created, in which to save the contents of the website.

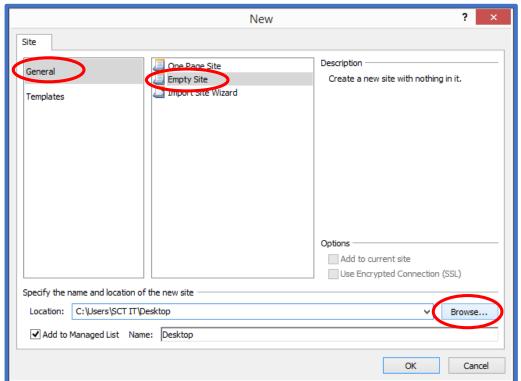
• To create the Web site and save the site information to the created folder, click the New Site option on the Site tab in the menu..





• Empty Site under the General tab must be selected from the window that will open...

• Click the **Browse** ... button to select the folder where the site will be saved.





•Select the relevant folder from the window that will open and click the **Open** button.

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Lesktop			Ch08	24.7	.2018 16:55	File folder	
Documents			Görreller	17.7	7.2018 14:19	File folder	
Downloads			ITEC112	25.7	7.2018 18:55	File folder	
Music			ITECT12 - Egitimde Bilgi Teknolojileri	25.7	7.2018 08:30	File folder	
Pictures			Logo Tasarımları	18.7	7.2018 07:53	File folder	
Videos			SCT Twitter	15.6	5.2018 13:29	File folder	
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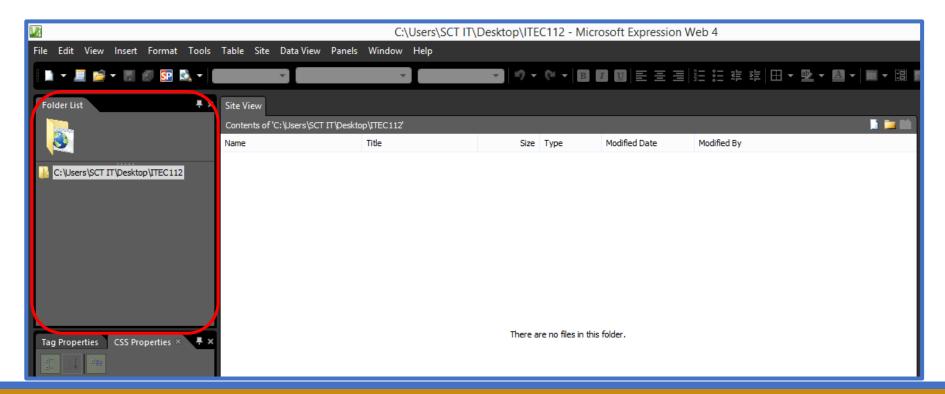
•After selecting the folder, click the **OK** button..

	New	? ×
Site		
General Templates	One Page Site Empty Site	Description — Create a new site with nothing in it.
		Options Add to current site Use Encrypted Connection (SSL)
Specify the name and location o	f the new site	
Location: C:\Users\SCT IT\[Desktop\ITEC112\	✓ Browse
Add to Managed List Nan	ne: ITEC112	
		OK Cancel



• The folder directory will be displayed in the **Folder List** panel.

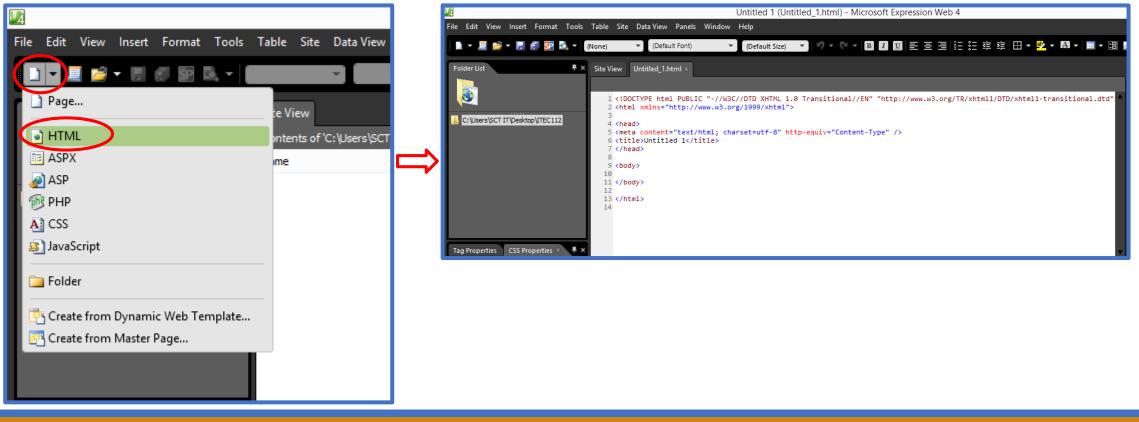
•Since the Web site folder does not have any content yet, no subfolder or file will be displayed





Creating Document

• To create an HTML document, click the New Document button in the Common toolbar and select HTML from the drop-down list.

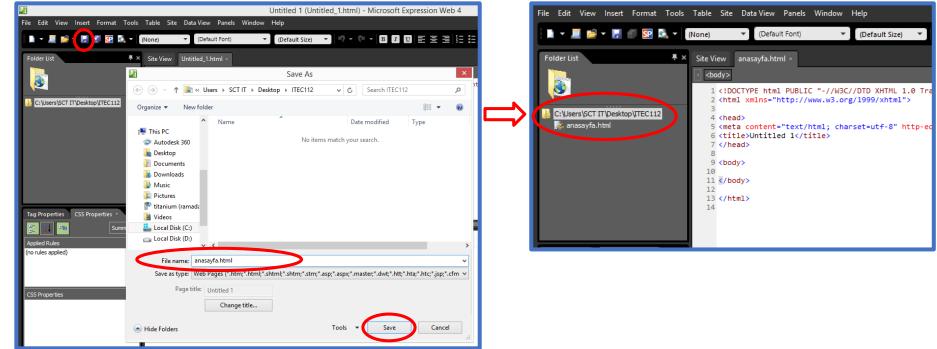




Creating Document

• To save the HTML document, click the Save button on the General toolbar.

• The name of the HTML document should be entered in the window that will open, and then click the **Save button**.





•HTML document; As in any document, it consists of basic information such as title and content.

<html>

solving

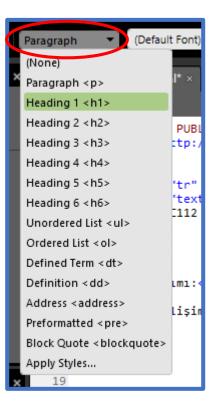
<head> <title> ITEC112 – Information Technologies</title> </head> <body> <h1> Definition of the course: </h1> This course consist, basic concepts of information technologies, definition of computational thinking, problem approaches, the use of internet in the field of education, the use of secure internet, the concept of ethics in information technologies, the effects of internet usage, computer hardware, operating systems, application software and third party software, algorithm analysis and flowchart design, use of word processing programs, use of spreadsheet programs, use of presentation programs, use of database programs, use of desktop publishing programs, definition of web design and use of code editors. </body> </html>



 Because of code compiler programs, many process can also be performed from the **Design menu**

 All text information added to the **Design screen** is created in Paragraph (paragraf).

 To format a paragraph created on the Design screen to be the Primary Header (Heading 1 <h1>), the content must first be selected with the mouse and then the Primary Header (Heading1 <h1>) property from the Styles drop-down list in the General toolbar must be clicked





• Text style will change after the process.

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	Block Quote «blockquote»
	Apply Styles
Tag Properties CSS Properties	• X 19
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Appled Bules	
(no rules applied)	Course Definition
	This course includes, basic concepts of information technologies, the definition of computational thinking, problem solving approaches, the use of the Internet in the field of education, the use of secure internet, ethics in information technology, the effects of Internet use, computer hardware, operating systems,
CSS Properties	application software and third party software, algorithm analysis and the use of flow chart design, the use of word processing programs, the use of spreadsheet programs, the use of presentation programs, the use of
	database programs, the use of desktop publishing programs, the use of web design programs, and the use of code editing programs.
	Design Selit Code



In order to change the format of a paragraph in the HTML document, the HTML code at the beginning of the paragraph should be selected from the Design screen..

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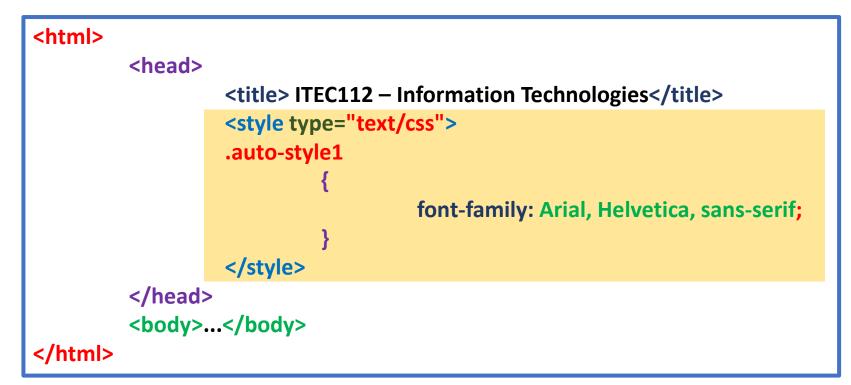


• Then, any type should be selected from the Font Style drop-down list in the Common toolbar

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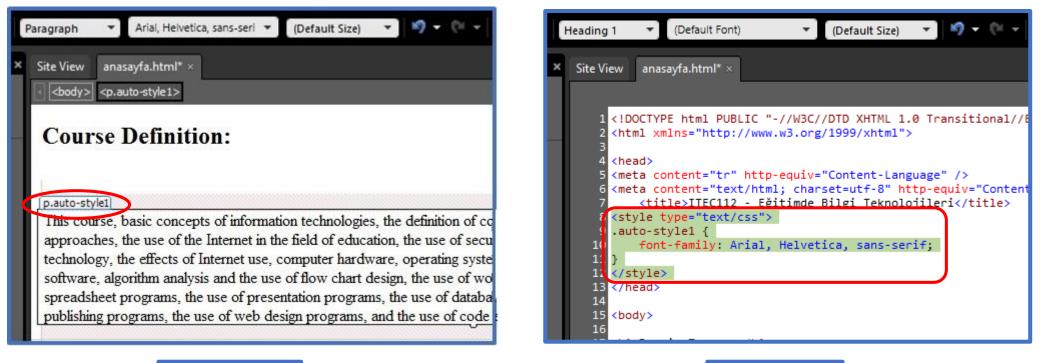


•After the typeface selection, the code compiler program will create a **CSS class** containing the information of the corresponding typeface in the header of the HTML document.





• The text format of the text will change after the process.



Design screen image

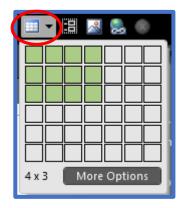
Code display image



Working with Tables

• **To insert a table** into the HTML document, the **Insert Table** button on the **Common toolbar** should be used

ONumber of rows and columns can be selected from the next window after the button is clicked..



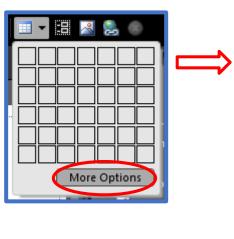


Working with Tables

 If the row or column number of the table to be created is more than the squares on the screen, the More Options button should be clicked.

• The row and column numbers should be entered using the **Rows and Columns** boxes

•Click **OK** to create the table.



	Insert Table ? ×
Size Rows: 12	Columns: 1
Layout Alignment: Float: Cell padding: Cell spacing:	Default ✓ Specify width: Default ✓ In pixels 100 ✓ In pixels 1 2
Borders Size: Color:	2 • • • • • • • • • • • • • • • • • • •
Background	round picture Browse Properties
Set Set as defa	ault for new tables
	OK Cancel



Working with Tables

•After adding a table to the HTML document, the desired information should be processed from the **Design screen** to the cells.

td	
WEEKLY COURSE, SCHEDULE	
Information Processing and Information Te	
Internet in Education	
Computer Hardware	
Operating Systems and Application Softw	are
Algorithms and Flowcharts	
Word Processors	
Transaction Tables	
Presentation Programs	
Database Programs	
Desktop Publishing Programs	
Web Design	
	······································



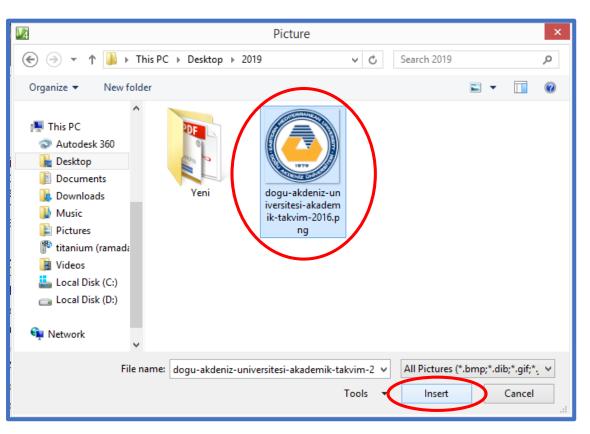
Plugins to a Document

 Many visual and audio add-ons such as video, audio or images can be added to the HTML document

• **To insert a photo or a picture** in an HTML document, you must use the Insert Picture From File button on the **General toolbar**.

 A window should be selected from the pop-up window and click the Insert button.

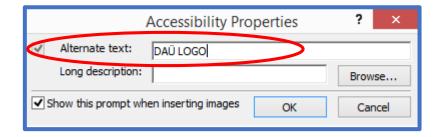






Plugins to a Document

•Alternate text should be entered from the window that will be opened just before the visual addition and OK button should be clicked. This information is used to identify the image.





Plugins to a Document

olf the added image is **too large or small**, it should be held by the mouse with the corners of the image and resized by the drag method.



Creating Hyperling between the Documents



 A hyperlink must be created from one HTML document to another document or another website.

• **To create a hyperlink** in the HTML document, a text or image must be selected, and then click the **Insert Hyperlink button** on the **Common** toolbar.

Tools Table Site Data View Panels Window Help	
👌 🔹 Paragraph 🔹 (Default Font) 🔹 (Default Size) 🔹 🗐 🔹 🐨 🐨 🖪 🛛 🕎 🚽 👘 🔹 🗄 📰 🔤 🔛 🔹 📴	- A - 🔳 - 🗄 🏼 🗶
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Click here to visit the website of the School of Computer and Technology	ags ≣ <div: □ <spa< td=""></spa<></div:

Creating Hyperling between the Documents



In the window that opens, the name of the document to which the hyperlink should be added or the address of the website should be written

• After clicking the **OK button**, the hyperlink information will be added to the contentr.

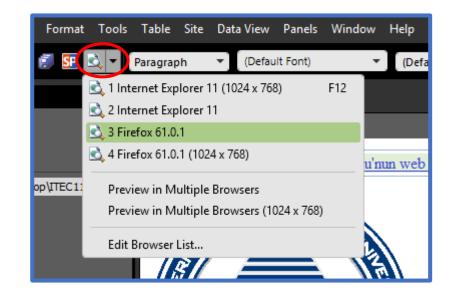
	Insert Hyperlink	? ×	Site View anasayfa.html* ×
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e E <u>x</u> isting File or	Look in: 💽 ITEC112 🔽 🔟 🖆		Please click here to visit the website of the School of Computer and Technology
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E- <u>m</u> ail Address	OK	Cancel	TOENIZ ÜNINE



Viewing a Document in a Web Browser

• To display the HTML document in the web browser, the View button on the General toolbar should be used.

• The **Preview button** will list all the web browsers installed on your computer.





Viewing a Document in a Web Browser

•After selecting a web browser from the **Preview button**, the code compiler will run the selected browser and display the web page.

