**LAB 12**

1. Lab 20 Cryptography (Lab20\_Manual.pdf)

a. Exercise 1

Your job is to decrypt the message CQNTNHRBDWMNACQNVJC.

1. You have a second message to decrypt NEXYIYECEHTIRISNEHPK…..Reverse her process to reveal the plain text.

Ans: Creating the grid by reversing the process:

It is a 4 row, 5 column grid.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | I | R | I | T |
| E | S | K | P | H |
| X | N | E | H | E |
| Y | I | Y | E | C |

Moving down the column from right to left we got the decrypted message as:

THECIPHERKEYISNINE

XY at end shows the vacant spaces.

This shows that key is 9.

1. If correctly decrypted the message, you have now the encryption key for original ciphertext, CQNTNHRBDWMNACQNVJC. Use it and decrypt the message and find the location of secret object.

ANS: We got key as 9 from last message.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

J K L M N O P Q R S T U V W X Y Z A B C D E F G H I

So, shifting original ciphertext by 9, we get the encrypted message as:

THEKEYISUNDERTHEMAT

So, the secret object is key and its location is under the bed.

2. Lab 21 First Steps in HTML (Lab21\_Manual.pdf)

a. Exercise 1

You’ll be creating a simple biography page.

Your page should include a brief biography sketch of yourself. Include the following information:

* Where you’re from
* What your major is
* What your plans are after the graduation
* What you hope to be doing 10 years from years now

Also include a discussion of your hobbies and interests outside of school.

You should also create a couple of lists on your page, some possible topics include:

* Your favourite musical groups
* Your favourite foods
* Your most despised foods
* Your favourite books
* Your favourite TV shows

Almost anything that can be put into list format can be included here.

3. [10] Lab 22 Linking and Images in HTML (Lab22\_Manual.pdf) 2 a. Exercise 1

1. Make a new directory on your disk, called YourLastNameWebpage.

ANS: Actually, I don’t have last name so I made the directory with my first name (SimranWebpage)

1. Make a copy of your webpage code from the previous lab. The copy of the file should be called index.htm.
2. Put index.htm into new directory.
3. You’ll also need to put a JPEG image into your new directory. If you have your own JPEG image, you can use that; otherwise, you can download an image from the internet. Your lab instructor can show you how to copy this practice image into your new directory.

b. Exercise 2

1. Open your homepage with your text editor.
2. Open a new line immediately after the <BODY> tag near the top of the HTML document, add a line of code that will make the JPG image appear on your webpage.
3. Save your homepage in your text editor.
4. View a homepage in your browser.

c. Exercise 3

1. From within text editor, go to the file menu and choose New. A blank text document will appear.
2. Go to the File menu and choose Save As.
3. In the save dialog box, route this document so that it is saved in your directory.
4. Name this new document links.htm.
5. Click the save button. From now on, we’ll call this new page your “links page”.
6. Add the appropriate tags to set up your new page, starting with <HTML>.
7. Once you have the app. structural tags in place, add a heading that says YourName’s Favourite Links.
8. Using the screenshot and code demonstrating the use of the <A> tag as a model, create your own simple links page showing few sites you enjoy.
9. Test your new links page in the browser to make sure it works. If you try clicking on link in the browser and get an error message, check to make sure you have no typos in your code.

d. Exercise 4

1. Open your homepage with the text editor.
2. On your hompage, add a new paragraph that says “Check out some of my favourite links” on a line just above the </Body> tag towards the bottom of your document. Make the last three words of that sentence(“my favourite links”) into a link that, when clicked on, will take you to your links page.
3. Save your work and view it in your browser.

e. Exercise 5

1. Add a link to your links page that, when clicked on, will take you to your homepage.

4. (HTML) Given the following HTML document:

<html>

<head>

<title> HTML</title>

</head>

<body>

<h1>Learn HTML</h1>

<a href = <https://www.w3cschools.com/html/default.asp>> HTML5 Tutorial </a>

</body>

</html>

1. Sketch approximately how it will be displayed in a web browser.

ANS: The sketch of the page will be approximately like following but there may be difference in the spacing of lines.

**Learn HTML**

HTML5 Tutorials

1. What is the protocol, hostname, top-level domain name, and file name of the HTML5 Tutorial page being linked to here?

ANS:

Protocol: https (Hyper text transfer protocol)

Hostname: www.w3schools.com

Top-level domain name: .com

File name: default.asp

5. (HTML) Given the following HTML document:

<html>

<head>

<title> Grandma Cafe </title>

</head>

<body>

<h1> Menu </h1>

<ol>

<li>Café Latte</li>

<li>Café Mocha</li>

<li>Cappuccino</li>

</ol>

</img src = <https://businessexchange.ca/wp-content/uploads/2018/05/coffee-shop-1.jps/>>

</body>

</html>

1. Sketch approximately how it will be displayed in a web browser. (For media items such as images, just draw a box labelled with the media type.)

ANS: Sketch of the webpage will be approximately like(where square represents image but the size of image may vary):

**Menu**

1. Café Latte
2. Café Mocha
3. Cappuccino

1. What is the protocol, hostname, top-level domain name, and file name of the image being linked here?

Ans:

Protocol: https (Hyper text transfer protocol)

Hostname: businessexchange.ca

Top-level domain name: .ca

File name: coffee-shop-1.jpg