CS101-ASSIGNMENT 2 SOLUTION , FALL 21

Introduction to Computing

Do no Copypaste the Question number 1, because every student will have to write his/her own VU ID in html input and SS output

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Questions no. 01 **Marks (15)**

Write the HTML code to make a webpage as depicted in the following diagram (Sample output).

```
<html>
<head>
<title>Bc200410961</title>
</head>

<body>
<img src="https://www.vu.edu.pk/App_Themes/Default/Images/menu-img/logo.png" width="170" height="90">

<H1>Grade Details</H1>

<B>Intermediate</B>

<P>Obtained Marks: 912</P>
<p><i> Percentage: 83%</i></p>
<p><i> Grade: A+</i></p>

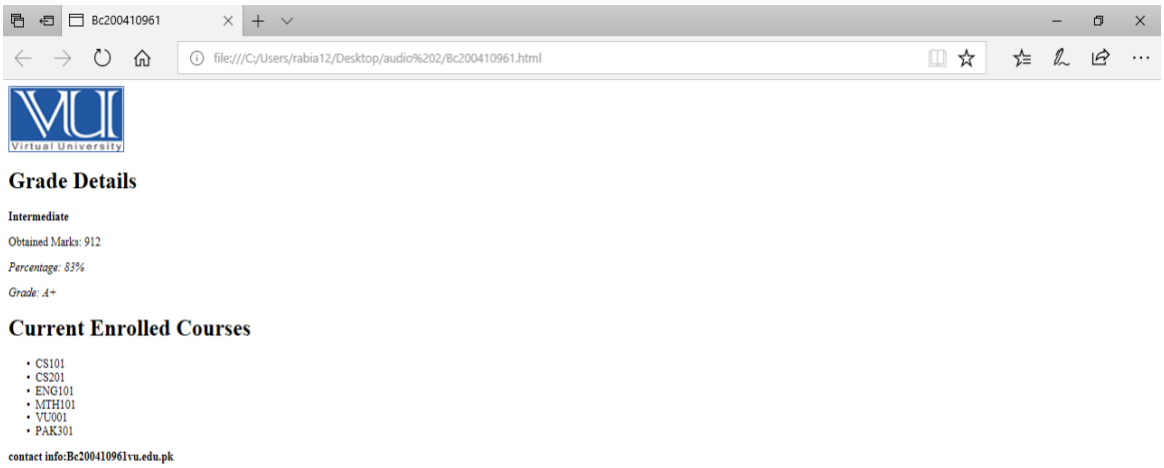
<H1> Current Enrolled Courses </H1>

<ul>
<li>CS101</li>
<li>CS201</li>
<li>ENG101</li>
<li>MTH101</li>
<li>VU001</li>
<li>PAK301</li>
</ul>

<B>contact info:Bc200410961vu.edu.pk</B>

</body>
</html>
```

Sample Output:



Note:

- Use your VUID as the title of the web page and the contact information should contain your VU email id that is given at the end of the sample page.
- The VU logo should have a link to open the VU website "https://www.vu.edu.pk/". You can include the VU logo in your webpage from the following URL: https://www.vu.edu.pk/App_Themes/Default/Images/menu-img/logo.png
- You have to write your marks, percentage and grade obtained in the intermediate degree.
- Also add a list of your enrolled courses in the current semester as depicted in the diagram.

Write the HTML code in the Notepad editor. Name the Notepad file your VU-ID and save the file with .html extension. Open the .html file and take a screenshot of your output.
Paste your HTML code and output screenshot in the solution file that should be a Microsoft Word document (.doc or .docx).

Questions no. 02 Marks (5)

Suppose a refreshment center is offering the following 8 flavors of juices and shakes.

Sr. No.	Juice
0	Pena Colada
1	Strawberry
2	Pineapple

3	Mango
4	Orange
5	Cookies and cream Milk shake
6	Coffee Milkshake
7	Candy Flavor Milkshake

The availability of these 8 flavors can be represented in the form of an 8-bit status string e.g. "11111111" where each bit "1" from left to right represents the availability of each flavor in the table from top to bottom respectively. The left-most bit represents the availability status of Pena Colada and the right-most bit represents the availability of Candy Flavor Milkshake. In the status string, "1" means the flavor is available and the unavailability of a flavor will be represented by "0" at the respective bit position.

Considering the above scenario, perform the following operations:

A. Assuming that all the flavors were available in the morning. If the juices at serial no. 3 and 5 in the table are finished at 2:00 PM, compute the new status string by using the appropriate logical operation.

B. If the availability status string of juices and shakes is "10101001" at 4:00 PM, check the availability of the "Coffee Milk Shake" using the appropriate logical operation:

C. ***Question No 2 Solution:***

D.

E.

	0	**1**	**2**	**3**	**4**	**5**	**6**	**7**
	Pena Colada	Strawberry	Pineapple	Mango	Orange	Cookies and Cream Milk Shake	Coffee Milkshake	Candy Flavor Milkshake
Morning Status	1	1	1	1	1	1	1	1
	1	1	1	0	1	0	1	1
Calculate New Status After 2PM using AND Operation								

New Status After 2PM	**1**	**1**	**1**	**0**	**1**	**0**	**1**	**1**

F.

Status At 4PM	1	0	1	0	1	0	0	1
Morning Status	1	1	1	1	1	1	1	1
FINAL AND (OP) Result	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**1**

G. **Coffee Milk Shake is Not Available**

H.

I.