

# ASSIGNMENT #2

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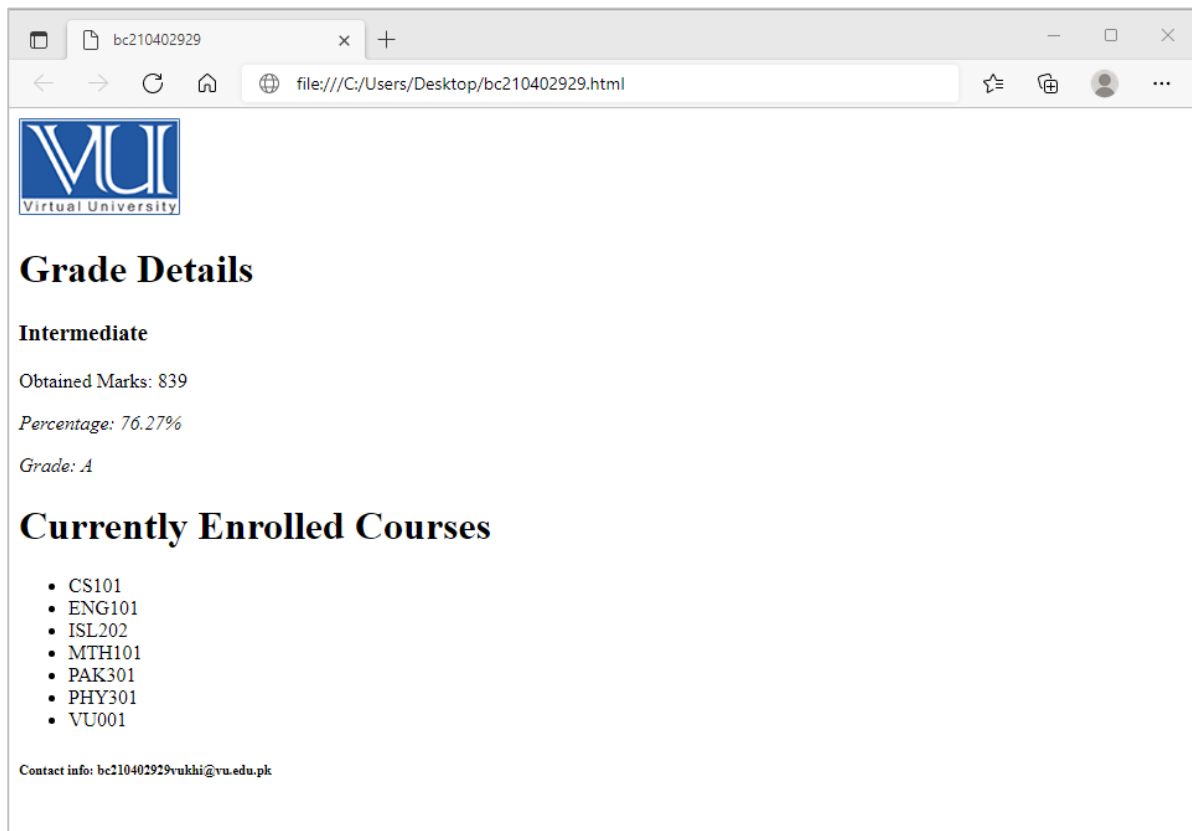
## Question #1

Write the HTML code to make a webpage as depicted in the following diagram.

### Instructions

- 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 logo in your webpage from the following URL: [https://www.vu.edu.pk/App\\_Themes/Default/Images/menu-img/logo.png](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.
- Also add a list of your enrolled courses in the current semester.

## Solution



## Code

```
<!DOCTYPE html>
<html>
<head>
  <title>bc210402929</title>
</head>
<body>
  <a href="https://www.vu.edu.pk" target="_blank">
    
  </a>
  <h1>Grade Details</h1>
  <h3>Intermediate</h3>
  <p>Obtained Marks: 839</p>
  <p><i>Percentage: 76.27%</i></p>
  <p><i>Grade: A</i></p>
  <h1>Currently Enrolled Courses</h1>
  <ul>
    <li>CS101</li>
    <li>ENG101</li>
    <li>ISL202</li>
    <li>MTH101</li>
    <li>PAK301</li>
    <li>PHY301</li>
    <li>VU001</li>
  </ul>
  <h6>Contact info: bc210402929vukhi@vu.edu.pk</h6>
</body>
</html>
```

## Question #2

Suppose a refreshment centre is offering the following 8 flavours of juices and shakes.

The availability of these 8 flavours 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 flavour 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 Flavour Milkshake. In the status string, "1" means the flavour is available and the unavailability of a flavour will be represented by "0" at the respective bit position.

1. Assuming that all the flavours 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.
2. 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.

## Answer (a)

We can compute the new status by using **AND** operation

Sr. No.	Juice	Morning	2:00 PM	New Status
0	Pena Colada	1	1	1
1	Strawberry	1	1	1
2	Pineapple	1	1	1
3	Mango	1	0	0
4	Orange	1	1	1
5	Cookies and Cream Milkshake	1	0	0
6	Coffee Milkshake	1	1	1
7	Candy Flavour Milkshake	1	1	1

New status after 2:00PM will be **11101011**

## Answer (b)

We can compute the new status by using **AND** operation

Sr. No.	Juice	Morning	4:00 PM	New Status
0	Pena Colada	1	1	1
1	Strawberry	1	0	0
2	Pineapple	1	1	1
3	Mango	1	0	0
4	Orange	1	1	1
5	Cookies and Cream Milkshake	1	0	0
6	Coffee Milkshake	1	0	0
7	Candy Flavour Milkshake	1	1	1

New status after 4:00PM will be **10101001** so we conclude "**Coffee Milkshake**" is unavailable.