

## Assignment # 2

Last Date 28-12-21

### CS101

bc200205916

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### Grade Details

**Intermediate**

Obtained Marks: 770

Percentage: 70%

Grade: A

### Currently Enrolled Courses

- CS101
- CS201
- ENG101
- MGT101
- MTH101

Contact Info: bc200205916@vu.edu.pk

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<head>
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</head>
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<body>
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<a href="https://vu.edu.pk/"></
a>
```

```
<h1>Grade Details</h1>
<h3>Intermediate</h3>
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  <li>CS101</li>
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  <li>ENG201</li>
  <li>MGT101</li>
  <li>MTH101</li>
</ul>
<b>Contact Info:vv180400892@vu.edu.pk</b>
</body>
</html>
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**Question # 2:**

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.

Sr. No.	Juice	Morning	20:00	(AND)
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 Milk shake	1	0	0

6	Coffee Milkshake	1	1	1
7	Candy Flavor Milkshake	1	1	1

A. 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:

Sr. No.	Juice	Availability Status	40:00	(AND)
0	Pena Colada	1	1	1
1	Strawberry	0	1	0
2	Pineapple	1	1	1
3	Mango	0	1	0
4	Orange	1	1	1
5	Cookies and cream Milk shake	0	1	0
6	Coffee Milkshake	0	0	0
7	Candy Flavor Milkshake	1	1	1

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