**Sheet # 2 (**Input, Output, String, if- else)

**Question 1:**

Write a java program that reads the name and price of three products. The program should then display a receipt containing the name and price after applying a 10% discount for all three items. Then print the total of all the items. The receipt should be formatted as shown in the sample run below:

**Note:**

* The width of the item name column is 15, and the width for the price column is 6.
* The price should be displayed with only 2 decimal places.

**Sample run:**

Please enter the name of the first item: refrigerator

Please enter the price of the first item: 800.0  
Please enter the name of the second item: microwave  
Please enter the price of the second item: 500  
Please enter the name of the third item: freezer  
Please enter the price of the third item: 1300

Name Price  
refrigerator 720.00  
microwave 450.00  
freezer 1170.00  
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Total= 2340.0

**Question 2:**

Write a java program that reads a price of a product. The program should then display a receipt containing the original price and the price after applying the discount as follows.

* The product of price at most 50 gets no discount.
* The product of price at least 50 and less than 100 gets 10% discount.
* Otherwise, the product gets 50% discount.

**Sample run:**

Please enter the price of the product: 100

Original price = 100.00

The price after discount = 50.00

**Question 3:**

Write a program that take as an input the date in the following format:

Day month year

The program then prints out the next date of the following date.

Note:

1. Pay attention to leap year and the New Year.
2. A year is considered leap year where February have 29 days if:

* the year is divisible by 4 but not by 100.
* the year is divisible by 400 .

1. If the user enter an invalid month show an appropriate message

**Sample Run 1:**

Please enter three integers representing a date as: day month year  
 28 02 1992  
The following date is: 29:2:1992

**Sample Run 2:**

Please enter three integers representing a date as: day month year  
 28 02 1900  
The following date is: 1:3:1900

**Sample Run 3:**

Please enter three integers representing a date as: day month year  
 31 12 1992  
The following date is: 1:1:1993