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Problem Program

## Class Printer

**[Note :**
**Strictly adhere to the object oriented specifications given as a part of the problem statement.**
**Use the same class names and member variable names.**
**Follow the naming conventions mentioned for getters / setters.**
**Create 2 separate classes.**
**In C#, dont create the classes within namespaces]**

Create a class named Printer that has the following private member variables.

| Java | | C# | |
|---|---|---|---|
| **Data Type** | **Member Variable Name** | **Data Type** | **Member Variable Name** |
| String | type | string | _type |
| String | model | string | _model |
| String | colorTechnology | string | _colorTechnology |
| int | printSpeed | int | _printSpeed |
| int | trayCapacity | int | _trayCapacity |

Include getters / setters (Java) or properties (get/set C#).
Java : Naming convention --- Example
getType(), setType() ...
C# : Naming convention --- Example
Type, Model, ColorTechnology, ...

Include a 5 argument constructor. The order of parameters passed to the constructor is type, model, color technology, print speed and tray capacity.

Override the toString method (Java) / ToString method (C#) to display the fan details in the following format.

type model colorTechnology printSpeed trayCapacity

[All member variables are separated by a single space. Don't include a new line in the string returned from this method. Refer sample output]

Override the equals method (Java) / Equals method (C#) to compare 2 objects for equality. Two objects are said to be equal if all the member variables of the 2 objects are equal.

Create a class called Main (in Java) or Program (in C#) to test the Printer class.
In the main method, create 2 objects of the Printer class. Initialize one object with the following values :

- Type - Multi-function
- Model - HP
- Color Technology - Inkjet
- Print Speed – 150
- Energy Rating - 2

Initialize the other object with the values obtained from the user.
Compare the 2 objects using equals method.

**Input and Output Format :**
Refer sample input and output for formatting specifications.

**Sample Input and Output 1:**
[All text in bold corresponds to input and the rest corresponds to output]

Enter the type of the printer
**Multi-function**
Enter the model of the printer
**HP**
Enter the color technology of the printer
**Inkjet**
Enter the print speed of the printer
**150**
Enter the tray capacity of the printer

**2**
The printer details you entered are
Multi-function HP Inkjet 150 2
Menu
1) Update type
2) Update model
3) Update color technology
4) Update printer speed
5) Update tray capacity
6) All information correct
Type 1 or 2 or 3 or 4 or 5 or 6
**5**
The current tray capacity is 2
Enter the new tray capacity
**1**
The updated printer details are
Multi-function HP Inkjet 150 1
Details of the printer that you got as a lucky prize are
Multi-function HP Inkjet 150 2
Both the printers are different

**Sample Input and Output 2:**
[All text in bold corresponds to input and the rest corresponds to output]
Enter the type of the printer
Multi-function
Enter the model of the printer
**HP**
Enter the color technology of the printer
**Inkjet**
Enter the print speed of the printer
**150**
Enter the tray capacity of the printer
**2**
The printer details you entered are
Multi-function HP Inkjet 150 2
Menu
1) Update type
2) Update model
3) Update color technology
4) Update printer speed
5) Update tray capacity
6) All information correct
Type 1 or 2 or 3 or 4 or 5 or 6
**6**
The updated printer details are
Multi-function HP Inkjet 150 2
Details of the printer that you got as a lucky prize are
Multi-function HP Inkjet 150 2
Both the printers are the same

**[Note:**

**The other prompt statements to be used are**

**The current model is**

**Enter the new model**
**The current color technology is**
**Enter the new color technology**
**The current printer speed is**
**Enter the new printer speed**
**The current tray capacity is**
**Enter the new tray capacity**

**]**

Sections Finish