

Assignment: indentPrint and isTeenager©2024 Chris Nielsen – www.nielsenedu.com

1. Given the following class `IndentPrint` with a defined `main` method, add the method named `indentPrint`. Determine the parameter number and type based on how the method is called in the `main` method.

```
public class IndentPrint {  
  
    public static void main(String[] args) {  
        indentPrint("This line is not indented", false);  
        indentPrint("This line is indented five spaces", true);  
    }  
  
    // add indentPrint method here  
  
}
```

The output must be as follows, and you must not modify the `main` method.

```
This line is not indented  
    This line is indented five spaces
```

2. Class `IsTeenager` with a defined `main` method is given on the following page. Rewrite the methods named `isTeenager` and `printIsTeenager`. The method `isTeenager` is to take an integer parameter named `age`, and return a `boolean` type that is `true` if the age is between 13 and 19, inclusive, and `false` otherwise. The method `printIsTeenager` is to take two parameters: a string and an integer. The string is to hold the person's name while the integer is to hold their age. This method must call `isTeenager` and print a formatted string to the console that states the name of the person and whether they're a teenager or not. As an example, if the name is "Jane" and their age is 15, the output should be the string "Jane is a teenager ." (and go to the next line after printing the string). Once both method `isTeenager` and `printIsTeenager` are complete, the output of the program must be as shown below. You must not modify the `main` method.

```
Aaron is 12 years old.  
Aaron is not a teenager.  
  
Betty is 13 years old.  
Betty is a teenager.  
  
Chris is 19 years old.  
Chris is a teenager.  
  
Darlene is 20 years old.  
Darlene is not a teenager.  
  
Edward is 100 years old.  
Edward is not a teenager.
```

Assignment: indentPrint and isTeenager

```
public class IsTeenager {

    public static boolean isTeenager(int age) {
        // COMPLETE THIS METHOD
        return false;
    }

    public static void printIsTeenager(String name, int age) {
        // COMPLETE THIS METHOD
        System.out.println("printIsTeenager() has not been implemented.");
    }

    public static void main(String[] args) {
        String[] name = {"Aaron", "Betty", "Chris", "Darlene", "Edward"};
        int[] age = { 12, 13, 19, 20, 100};
        boolean isTeenagerWorking = true;

        for(int i = 0; i <= 12; i++) {
            if(isTeenager(i)) {
                System.out.println(
                    "ERROR: Method isTeenager() returns true," +
                    " but age " + i + " is not a teenager!");
                isTeenagerWorking = false;
            }
        }
        for(int i = 13; i <= 19; i++) {
            if(!isTeenager(i)) {
                System.out.println(
                    "ERROR: Method isTeenager() returns false," +
                    " but age " + i + " is a teenager!");

                isTeenagerWorking = false;
            }
        }
        for(int i = 20; i <=100; i++) {
            if(isTeenager(i)) {
                System.out.println(
                    "ERROR: Method isTeenager() returns true," +
                    " but age " + i + " is not a teenager!");
                isTeenagerWorking = false;
            }
        }

        if(isTeenagerWorking) {
            for(int i = 0; i < name.length; i++) {
                System.out.println("\n" + name[i] + " is " +
                    age[i] + " years old.");
                printIsTeenager(name[i],age[i]);
            }
        } else {
            System.out.println(
                "\nStart by getting method \"isTeenager()\" +
                \" working properly.\");
        }
    }
}
```