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JAVA PROGRAMMING ACTIVITY 3.3

Source code (Class) :

```

/*Act 3.3
*

Some Info :
- This Java code defines a class named Keyboard that has several instance variables
such as <Keycap>, <Switches>, <Keys>, <mountingPlate>, <Length>, <Width>, and <Price>.

- viewAttributes() method prints the values of the instance variables to the console
and writes them to a file named anotherMechanicalKeyboard.txt.

- The anotherAttributes() method prompts the user to enter values for the instance variables
and writes them to a file named MXKeyboard.txt.

- and i also used file_manipulation. (from previous act3_2 :)

*/
import java.util.Scanner;
import java.io.*;

```

```

public class Keyboard {
    String Keycap;
    String Switches;
    int Keys;
    String mountingPlate;
    double Length;
    double Width;
    int Price;

    void viewAttributes() throws IOException{
        PrintWriter outFile = new PrintWriter("anotherMechanicalKeyboard.txt");
        System.out.println("Color:\t\t"+ Keycap);
        outFile.println("Color:\t\t"+ Keycap);

        System.out.println("Variant:\t\t"+ Switches);
        outFile.println("Variant:\t\t"+ Switches);

        System.out.println("Number of keys:\t"+ Keys);
        outFile.println("Number of keys:\t"+ Keys);

        System.out.println("Plate Type:\t"+ mountingPlate);
        outFile.println("Plate Type:\t"+ mountingPlate);

        System.out.println("Length:\t\t"+ Length);
        outFile.println("Length:\t\t"+ Length);

        System.out.println("Width:\t\t"+ Width);
        outFile.println("Width:\t\t"+ Width);

        System.out.println("Base Price:\t\t"+ Price);
        outFile.println("Base Price:\t\t"+ Price);

        outFile.print("+---+---+---+---+---+---+---+---+---+---+");
        outFile.print("| q | w | e | r | t | y | u | i | o | p | [ | ] | |");
        outFile.print("+---+---+---+---+---+---+---+---+---+---+");
        outFile.print("| a | s | d | f | g | h | j | k | l | ; | ' | ENTER|");
        outFile.print("+---+---+---+---+---+---+---+---+---+---+");
        outFile.print("| z | x | c | v | b | n | m | , | . | / | SHIFT|");
        outFile.print("+---+---+---+---+---+---+---+---+---+---+");
        outFile.print("-code by Izac Gonda ^^");
        outFile.close();
    }
}

```

```
}
```

```
void anotherAttributes() throws IOException{
    PrintWriter anotherFile = new PrintWriter("MXKeyboard.txt");
    Scanner input = new Scanner(System.in);

    System.out.print("Color:\t\t");
    Keycap = input.next();
    anotherFile.println("Color:\t\t"+ Keycap);

    System.out.print("Variant:\t\t");
    Switches = input.next();
    anotherFile.println("Variant:\t\t"+ Switches);

    System.out.print("Number of keys:\t\t");
    Keys = input.nextInt();
    anotherFile.println("Number of keys:\t\t"+ Keys);

    System.out.print("Type of Plate:\t");
    mountingPlate = input.next();
    anotherFile.println("Type of Plate:\t"+ mountingPlate);

    System.out.print("Length:\t\t");
    Length = input.nextDouble();
    anotherFile.println("Length:\t\t"+ Length);

    System.out.print("Width:\t\t");
    Width = input.nextDouble();
    anotherFile.println("Width:\t\t"+ Width);

    System.out.print("Base Price:\t\t");
    Price = input.nextInt();
    anotherFile.println("Base Price:\t\t"+ Price);

    anotherFile.print("-----");
    anotherFile.print("| q | w | e | r | t | y | u | i | o | p | [ | ] | |");
    anotherFile.print("-----");
}
```

```

        anotherFile.print("| a | s | d | f | g | h | j | k | l | ; | ' | ENTER|");
        anotherFile.print("+---+---+---+---+---+---+---+---+---+---+");
        anotherFile.print("| z | x | c | v | b | n | m | , | . | / | SHIFT|");
        anotherFile.print("+---+---+---+---+---+---+---+---+---+---+");
        anotherFile.print("^^");

        anotherFile.close();
    }
}

```

Source code (Main Class) :

```

import java.io.*;

public class Objectclass {

    public static void main(String[] args) throws IOException{

        Keyboard anotherKeyboard = new Keyboard();
        Keyboard MXKeyboard = new Keyboard();

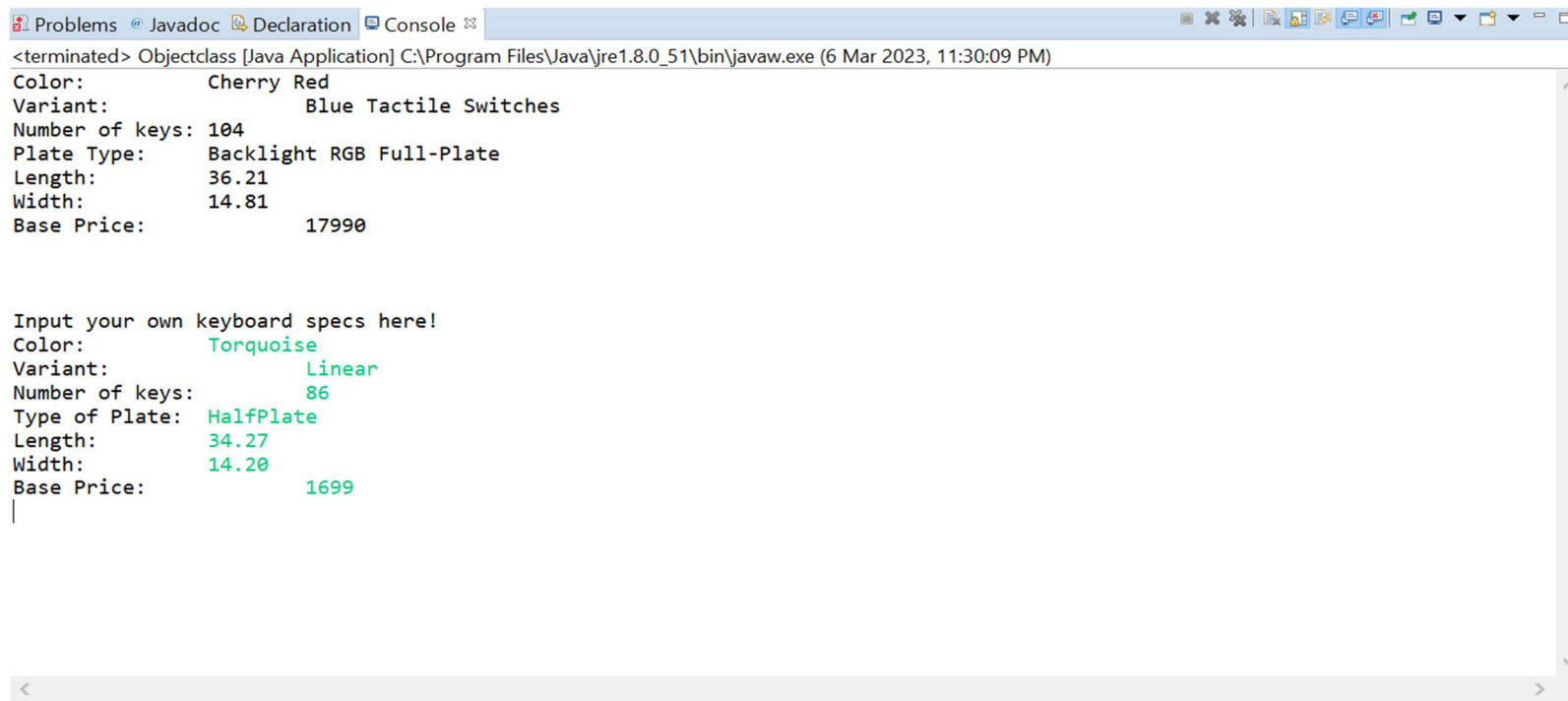
        anotherKeyboard.Keycap = "Cherry Red";
        anotherKeyboard.Switches = "Blue Tactile Switches";
        anotherKeyboard.Keys = 104;
        anotherKeyboard.mountingPlate = "Backlight RGB Full-Plate";
        anotherKeyboard.Length = 36.21;
        anotherKeyboard.Width = 14.81;
        anotherKeyboard.Price = 17990;
        anotherKeyboard.viewAttributes();

        System.out.println("\n\n");
        System.out.print("Input your own keyboard" + " specs here!\n");
        MXKeyboard.anotherAttributes();
    }
}

```

```
}  
  
}
```

Output:



The screenshot shows a Java IDE console window with the following content:

```
<terminated> Objectclass [Java Application] C:\Program Files\Java\jre1.8.0_51\bin\javaw.exe (6 Mar 2023, 11:30:09 PM)  
Color:          Cherry Red  
Variant:        Blue Tactile Switches  
Number of keys: 104  
Plate Type:     Backlight RGB Full-Plate  
Length:         36.21  
Width:          14.81  
Base Price:     17990  
  
Input your own keyboard specs here!  
Color:          Torquoise  
Variant:        Linear  
Number of keys: 86  
Type of Plate:  HalfPlate  
Length:         34.27  
Width:          14.20  
Base Price:     1699  
|
```

