Computer Science I – Prepa Tec Campus Eugenio Garza Lagüera  
Activity 6: Hello, World!

Using the instruction System.out.println(<argument>), we specify that we want to output some text to the console and jump to the next line. Inside the parenthesis, we include an argument, which can be a variable, a String encased by quotes (“), or a combination of both.

Look at the following example:

|  |  |
| --- | --- |
| **Code** | **Console output** |
| System.out.println("Today"); System.out.println("is"); System.out.println("a"); System.out.println("happy"); System.out.println("day"); | Today  is  a  happy  day |

There is a second variant of the instruction, which is System.out.print(<argument>). Both look similar but notice that one uses println and the other uses print. This instruction is also used to output a text to the console but will leave the cursor right next to the outputted text, without jumping to a new line.

Look at the two following examples. Both blocks of code are equivalent and print the same output in the console.

|  |  |
| --- | --- |
| **Code** | **Console output** |
| System.out.println("Today is Monday"); | Today is Monday |
| System.out.print("Today ");  System.out.print("is ");  System.out.print("Monday"); | Today is Monday |

There are some special characters that require a special representation to be printed to the console.

|  |  |
| --- | --- |
| **Character** | **Code** |
| Single quote | \' |
| Double quotes | \" |
| Inverted slash | \\ |
| Tab | \t |
| Backspace | \b |
| Carriage return | \r |
| Form feed | \f |
| Newline (jump to next line) | \n |
| Any special Unicode character | \uXXXX replacing XXXX with the Unicode code |

For example, the following code would print the following:

|  |  |
| --- | --- |
| **Code** | **Console output** |
| System.out.println("1\n2\n3\n4\n5"); | 1  2  3  4  5 |

**Complete the following activities. Once you are done, submit the Java source code to Canvas (.java).**

**Problem 1:** Using Eclipse, create a new Java project. Inside it, create a Java class and name it using your student id: A0XXXXX\_P1.java.

Design a program that prints an ASCII art of your choosing to the computer console (be creative!). The ASCII Art should include your student ID as part of the drawing.

For example:

|  |
| --- |
| **A01135459**  Super ASCII Bros. 3 by Curchack on deviantART | Ascii art, Ascii, Text  pictures |

**Problem 2.** Create a new class and call it A0XXXXX\_P2.java. The program should print the following text on the console:

|  |
| --- |
| The user (A0XXXXXX) has purchased the following:  Bottle of water $8.50 Chetos Flamin' Hot ¥70.62 \Trident/ gums $17.20 |

Make sure to:

* Replace “A0XXXXXX” with your student ID.
* Verify that all special characters are printed.
* The two columns must be properly aligned. You can use tabs ↹. For this.

If you need to print any special character, you can find the Unicode codes on the following site: (<https://www.rapidtables.com/code/text/unicode-characters.html>).