Java Programming for Beginners

Lab Exercise 3

1) Java can handle complicated conditional statements. Given **Boolean** variables **A**, **B**, and **C**, write **if** statements to check for the following conditions:

- **A** and **B**, but not **C**

- Either **A**, **B**, or **C**

- All or none of **A**, **B**, and **C**

- **A** and **B**

Using this knowledge, write Java code which will accept only words containing no vowels.

2) Using a **while** loop, write Java code which will multiply all the integers from 1 to a given value. Now, utilize a **for** loop to generate the same functionality. What are the limitations of the code you've written? How high a given value can each implementation handle? Do you feel that one loop type is superior to the other in this case?

3) Utilize a switch statement. Write Java code which will convert the following integer values to color names:

1 -> "Green"

2 -> "Red"

3 -> "Blue"

4 -> "Yellow"

Default -> "White"

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