

Exercise 4: Selection

Save these projects as Selection1.java, Selection2.java, etc. All programs must have a header, use correct indentation, spacing, comments and adhere to good programming style. Save ALL files in a folder named *selection*.

1. Ask the user for a number between 1 and 100. If the value is larger than or equal to 65, then output the words “You are a senior citizen”.

2. Ask for a mark. If the mark is ≥ 50 state “you passed”. If the mark is < 50 say “better luck next time”.

3. Ask for a temperature. State:

>30	hot
20-30	comfortable
10-19	cool
≤ 9	cold

4. Ask the user for a secret number (1-10). Ask another user (assume that the user cannot see the secret number on the screen) for a number. If the number matches the secret number, say “you win!” otherwise say “game over”.

5. Ask for a mark (out of 100). Give the following output:

75-100 Great	
50-74	Pass
0-49	Fail
Other	Invalid

****ONLY the *if* and *else* operators for this question.**

6. Password = “happy”

Ask the user for a password. If password is correct, output “you are logged in” if not, then output “incorrect password”.

Hint: Use `.equals()` or `.compareTo()` for a String comparison

7. Ask the user for two marks between 0 and 100. Output the higher mark.

8. Ask the user for the number of times to print the word Hello (between 1 and 3). Then print the following on separate lines:
If the user entered 1, print Hello once
If the user entered 2, print Hello twice
If the user entered 3, print Hello three times ...

SAMPLE RUN:
Enter a number: 2
Hello
Hello

CHALLENGE

9. Ask the user for five words. Output them in alphabetical order.

10. Design a program to help a user pick a new car. The questions asked should correspond to the flowchart below:

