**Complete 4 of the following coding challenges, 2 with for loops and 2 with while loops. Submit the .py files into the 1.4 dropbox on the HUB. Include the following:**

-A .py file with the problem number in the name.

-Comments to describe functions where necessary.

-Your name, the date and the number of the problem at the top of the code using comments:

A close up of a text

AI-generated content may be incorrect.

20 Ask which direction the user wants to count (up or down). If they select up, then ask them for the top number and then count from 1 to that number. If they select down, ask them to enter a number below 22 and then count down from 20 to that number. If they entered something other than up or down, display the message “I don’t understand.”

21 Ask how many people the user wants to invite to the party. If they enter a number below 10, ask for the names and after each display “[name] has been invited.” If they enter a number which is 10 or higher, display the message “Too many people.”

22 Using the song “10 green bottles”, Display the lines  
“There are green bottles hanging on the wall, and if 1 green bottle should happen to fall...” Then ask the question “How many green bottles will be hanging on the wall?” If they answer correctly, display “There will be [num] green bottles hanging on the wall.” If they answer incorrectly, display the message “No, try again” until they get it right. Then repeat the song. When the number of green bottles gets down to 0 display’ There are no more green bottles hanging on the  
wall.

23 Ask for the name of somebody the user wants to invite to a party. After this, display the message “[name] has now been invited.” and add 1 to the count. Then ask if they want to invite somebody else. Keep repeating this until they no longer want to invite anyone else to the party, then display how many people are coming to the party.

24 Ask the user for a number between 1 and 12, then print out the multiplication table (from 1 to 12) for that number.

25 Set the total to 0 to start with. While the total is 50 or  
less, ask the user to input a number. Add that number to  
the total and print the message “The total is... [total]”. Stop  
the loop when the total is  
over 50.  
26 Ask the user to enter a number. Keep asking until they enter a value over 10 and display the message “The last number you entered was a [number]” and stop the program.

27 Ask the user to enter a number, and then another number. Add these two numbers together then ask if they want to add another number (y/n). If they enter y, ask them to enter another number and keep adding numbers until they enter n. Once the loop has stopped, display the total.