Practice Exercises #2-2

1. **Simple if-statement**: Write a Python program that asks what grade you’re in.
   1. If grade is between 1 and 6, output “Elementary school”
   2. If grade is between 7 and 8, output “Middle school”
   3. If grade is between 9 and 12, output “High school”
   4. If grade is any other value, output “I don’t know what school level you’re in.”
2. **Nested if-statement:** In chess, a player is *checkmated* if his/her king is in check (i.e. could be captured by the other player) and there is no move the player can make that doesn’t put the king in check.   
     
   The game is a *stalemate (*meaning the game is a tie*)* if a player’s king is not in check, but there is no move the player can make that doesn’t put the king in check.

Write a Python program that uses two input statements and a nested-if statement to solve the following task:

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| --- | --- |
| **Input**  - Whether the white king is currently in check (yes or no)  - Whether the white player has a move that doesn’t put the king in check (yes or no) | **Output**  Whether the white player is *checkmated*, the game is a *stalemate*, or *neither* |

1. **Double-nested if-statement:** Write a Python program that asks the user how many academic credits he/she has earned.   
   1. If it’s 30 or more, ask whether he/she has passed the Grade 10 literacy test.  
      1. If he/she **has** passed the Lit Test, ask how many volunteer hours he/she has completed.
         1. If it’s enough hours, output “You can graduate!”
         2. Otherwise, output how many more hours are needed to graduate.
      2. If he/she **hasn’t** passed the Lit Test, output “You can’t graduate without passing the lit test”
   2. If it’s not enough credits, output “You can’t graduate yet because you still need \_\_\_” more credits.