day39 Review 2
Due 11/16/20 by midnight

Python Quiz Review #2

This assignment is designed to help you do well on the quiz we're doing Thursday. Number the parts of your program as shown.

Open a new repl and put your name in the comment at the top. Then do all of the following in that program:

1. Write a print line that prints a random integer between 17 and 29 inclusive. The print-out should look like this (except it should only sometimes be 22, since it's random):

    ```
    1. Random number:

    22
    ```

2. Write a for loop that prints the numbers 4 through 8, one # on each line. It should look like this:

    ```
    2. for loop:

    4
    5
    6
    7
    8
    ```

3. Write a for loop to print the numbers 1 through 45 in 5 columns using .rjust(7) like this:

    ```
    3. for loop with columns:

          1      2      3      4      5
          6      7      8      9     10
         11     12     13     14     15
         16     17     18     19     20
         21     22     23     24     25
         26     27     28     29     30
         31     32     33     34     35
         36     37     38     39     40
         41     42     43     44     45
    ```

4. Write code to create a list with your three favorite colors in it, then print the list using a for loop, one color per line. Do not use a break command.

    ```
    4. Favorite colors:

    Yellow
    Green
    Blue
    ```

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5. Write code that uses a try/except structure with an input command to request a negative integer value from the user. The code needs to ask the user for a negative integer x and verify it is negative, then print the number. Include one error message to the user on ValueError and a different one if the number is not negative. Here is sample output:

```
5. try/except:

Please enter a negative integer: abc
That is not an integer, please try again.
Please enter a negative integer: 14
That is not negative, please try again.
Please enter a negative integer: -7
Thanks! -7 is negative and it is an integer.
```

6. I put some test scores into a list variable as shown. Write code that **uses a for loop** to go through the list and reports how many numbers are smaller than 60 and adds them up. Please do not just print "2". Write a **for loop** to check each number, then print out your results as shown in the sample below. Start this section with the following line:

```
scores = [81,45,98,53,64,84,77,60,93]
```

Sample output:

```
6. List processing:

There are 2 numbers less than 60, they add to 98
```

The idea of the above is that if I changed the list of numbers, your code would still check all the numbers and count how many were less than 60; in other words, the code that processes the list is not dependent upon this specific list.

As usual, I made a video where I work this whole thing out. Watch it if you need help.