

ANPA Python School for High-schoolers

Section: Grade 10 & Above

Homework: 1

Due: June 24, 2021

1. Print the following short story using the print function in python:

I said, "Is that who I think it is?"
"Yes. So now you know at least some of the sighting stories are true. But *don't* call him by his name. Call him Bubba! Something went wrong when he came over—from human to vampire—maybe it was all the chemicals in his blood."
"But he was really dead, wasn't he?"
"Not . . . quite. One of us was a morgue attendant and a big fan, and he could detect the tiny spark still left, so he brought him over, in a hurried manner."
"Brought him over?"
"Made him vampire," Bill explained. "But that was a mistake. He's never been the same from what my friends tell me. He's as smart as a tree trunk, so to make a living he does odd jobs for the rest of us. We can't have him out in public, you can see that."
I nodded, my mouth hanging open. Of course not. "Geez," I murmured, stunned at the royalty in my yard.

2. Use Exponent, mod, multiply, division, addition, and subtraction to express 111.0 using PEMDAS. (Use the operators in the order given in the example.)

Example: $(2+7) ** 3 \% 111 * 4 / 3 + 29 - 2$

3. Use comparison operators and find Boolean answers to the following:

- (a) 30 is equal to 25
- (b) 30 is greater than 25
- (c) 30 is not equal to 25
- (d) 30 is less than or equal to 25
- (e) 30 is greater than or equal to 25
- (f) 30 is greater than 25 and smaller than 35

3. Go to the following link: [https://en.wikipedia.org/wiki/National_Basketball_League_\(United_States\)](https://en.wikipedia.org/wiki/National_Basketball_League_(United_States)). This is about **National Basketball League (NBL)** of the USA. Now scroll down to the "Arenas" section. You will find a table. Now do the following.

- (a) Copy the table into CSV format (i.e. Copy and paste in excel sheet) and name it as "NBL_USA".
- (b) Delete rows called Cincinnati Comellos, Columbus Athletic Supply and Pittsburgh Pirates from the eastern division and rows called Richmond King Clothiers, Detroit Eagles, Flint/Midland Dow A.C.'s, and Kankakee Gallagher Trojans from western division. Now save the file.
- (c) Import the NBL_USA file into your google Collaboratory notebook.
- (d) Draw a team versus capacity plot.

Your instructor: Chandra Mani Adhikari, PhD