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On Pre-flights:

• If you work with anyone else, document what you worked on together.

Do not write in the table to the right.

Score							
Points	ಬ	5	5	5	10	5	35
Problem	1	2	3	4	2	9	Total:

- 1. (5 points) Describe the basic variable types available in Python.

 Literal > py thon provides a special syntax to directly create them

 precise > All variables of a precise type represent one thing and only one thing integers imprecise > 64-by to proximations of real numbers e.g. flooring integers integers special > variables whose values are built into e.g. NONE
- (a) (2 points) What does the variable None mean in Python? The same as NULL in No value giver or no behavior Jefined. It means the case staps working of the programming languages. This is where the case staps working
- when pertorning an action that may or may not work besed on the inputs. It the user inputs something that will not falkill the stated criteria, the None function can lead to an output to inform them of (b) (3 points) What is an example of how to use the None built-in variable? error
 - 3. State the solution to the following in Python 2 and, if different, Python 3:
 - (a) (1 point) 10%3 | Modulys
- (b) (1 point) 11//6 | + tracetion / vision
- (c) (1 point) 4**3 64 Oxporer
- (d) (1 point) 12/5 Python 2: 2 200 febion.
 Python 3: 2.4

- (e) (1 point) 6! = 5 True not equal to
- (a) (2 points) What is the default encoding of strings in Python?

 Unicode in Python 3

 45(II in Python 3
- (b) (1 point) What is the starting index number in Python?

 2 for left to light

 for light to left
- (c) (1 point) How do you reference the last element of a string?

 Using regative indiansing -1 to reference the last number in the string
- (d) (1 point) How do you concatenate strings?

 Using the addition of perator, also using the multiplication speaks, as miltiplication represents multiple additions
- (a) (2 points) Define the meaning of module in Python. The in-memory Cepteralthin of all python code in at le
- (b) (2 points) Define the meaning of package in Python and list what elements are required to make it a package in the same directory. Can include modules wither the same directory, can include modules wither the same directory. Can include modules wither the same of th
 - 1) imfort, then use the 2) from and import (mo) 3) Aliasing import

(d) (2 points) What 2 items are required to make packages visible in Python?

A Filenand — int — fy in the Juedary
Other files in the Juedary ending in fy

(e) (2 points) Label the following directory structure as packages, subpackages, or modules:

pyScripts/Package
___init__.py Module
__physics.py Module
__BasicCalcs/5uberkage
___init__.py module
__init__.py module

evenmorephysics.py mobile

- AdvancedCalcs/

-- readme.txt

AdvancedCalcs/
readme.txt

advancedphysics.py

advancedphysics.py

a __init __fy robble

(a) (1 point) Why are you taking this class?

for understand modelling to assist in my understanding of nuclear fraction from the apply it to achieve greaterweathering to points) Is there a specific, non-grade related outcome you would like?

(b) (2 points) Is there a specific, non-grade related outcome you would like?

I hake off the programming coloured in the premium of the models in my head and the language workers that you found difficult in the reading?

flicting indices was contained to me just unfamilies with year indexing as I have had little progressing experience