Final project – Comments and Recommendations

Python 3 – Advanced Level – Revision 1

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1. Recommendation:

You can create an array of pointers to functions.

Currently right now we have 3 classes;

Person, Student, Employee

When we write, in the main file, the name of the class with parentheses, we get to the init function in which there is a name.

So, I will refer to it as a function in this explanation.

Below in the code you have 3 calls, which are basically the same;

Person(id\_input, name\_input, age\_input)

Student(id\_input, name\_input, age\_input)

Employee(id\_input, name\_input, age\_input)

In terms of decisions we only have to decide to who we call, but the use of the parentheses,

(id\_input, name\_input, age\_input),

will be same

To achieve this we can create a list, and name it ‘person\_types’ for that matter.

And this list will contain the 3 classes.

Person\_types = [Person, Student, Employee]

Now we can write the line

Person\_types[0]

And we accessed the element in 0 index, which is Person

So if, ‘person\_types[0]’ is ‘Student’, then this line

Person\_types[0](id\_input, name\_input, age\_input)

Is exactly like this line

Student(id\_input, name\_input, age\_input)

Why it’s interesting?

Because you can define the list once, and then print it to the user with the indices.

For person press 0

For student press 1

For Employee press 2

It’s a loop that prints everything inside, maybe with ‘type’ or something, but you want need to right too many strings.

Below in the code, instead of writing ‘if 0 then student, if 1 then employee’ etc.

You can write.

Entries\_lst.append(person\_types[user\_choice])

Of course you will have to check that user\_choice is a number, and it’s in range.

This subject called

Applied

1. Recommendation:

No need for these prints.

You can print all the enums using a loop.

Dig a bit of what functions you can use to get the current enum in every iteration, and then you print

Enum.value + “. + enum.name

It may be with underscores \_\_name\_\_ etc.

This is one of the motivations with enums, if tomorrow you will add an option, the moment you add it to the enums, it will be printed too in the menu.

It’s ok to print it in capital letters.

Fixed

1. Recommendation:

In most cases a function with the name ‘loop’ will contain a loop.

This is not the case here, find a different name.

‘main loop’ changed to ‘home screen’

1. Recommendation:

Since enum is a class, you should put it in a different file.

Extracted to different file

1. Recommendation:

No need for this, look a bit down to see how to solve.

I didn’t quite understood what you mean, but I changed the code a bit.

Now instead of using if statements to set the entry\_type, I’m using single line code to assign person type

1. Recommendation:

Instead of evaluating ‘option.value == 1’, you can evaluate

Option == MenuOptions.SAVE\_A\_NEW\_ENTRY

This is another reason to work with enums, it makes sense.

We don’t talk with numbers anymore, we use actual names.

Used mapping function instead.

1. Recommendation:

I see you haven’t changed the name ‘index’, in all places you use it as string.

It’s very confusing, ‘index’ is a number by definition.

‘Index’ variable changed to ‘num\_of\_digits’