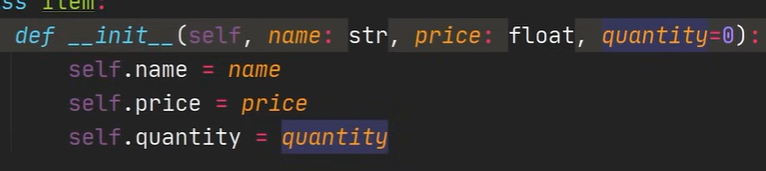
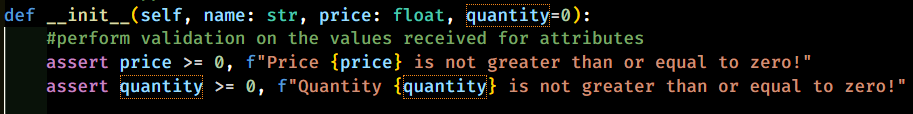
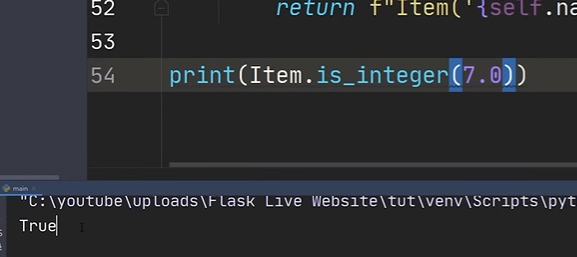
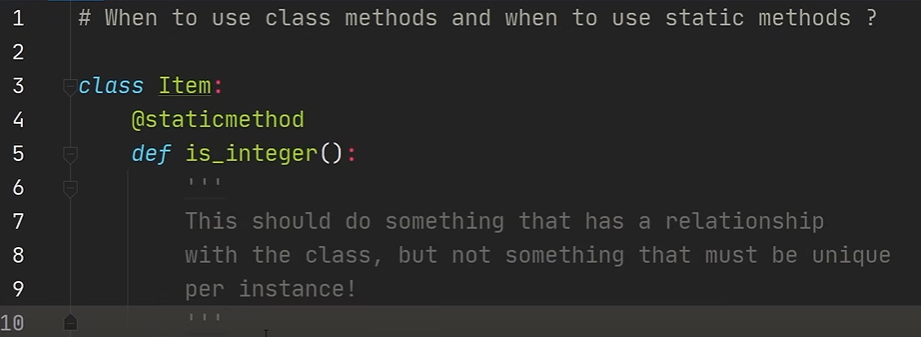
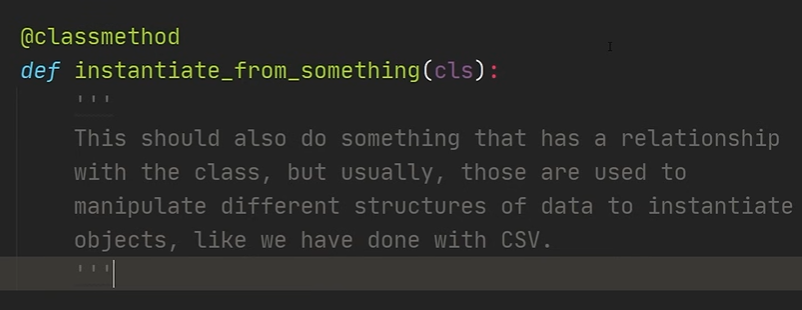
Notes:

* functions in python that have `\_\_` at the start and end (Like `\_\_init\_\_()` ) are known as magic methods.
* \_\_init\_\_()` is also known as constructor. Runs automatically when an instance of class is created.
* We can add default values for parameters inside constructors.   
  Eg. \_\_init\_\_(self, name=’noname’)
* Note that constructor should only be used to add general attributes. If you want to add specific attributes to your instances, you can always do that separately.
* Specifying types that a class can accept:  
    
  Here, we specify types as attribute: type. Notice that we do not specify type of attribute ‘’quantity’’ as it’s default value is set to the type we want, that is integer.
* We can validate arguments received using the assert statement as following:  
  
* Class methods and static methods
* Static methods
  + Static method is a method that is logically connected with the class and does some work from you. We define it with it’s decorator: ‘@staticmethod’
  + Static methods never take instance ‘self’ as the first argument.
  + We can simply access the static methods outside the class by using classname.static\_method\_name() without even instantiating the class, and as long as the arguments are satisfied, you don’t need to put arguments only associated with the class. (i.e. it is not unique to an instance but it is related to the class.)
  + 
  + sasd
* Class methods:  
  
  + One application of class method is for instantiating from a CSV file or YAML file, where we want to make instances\* from an external file containing structured data that you own, like a csv or yaml file. It is not a helper function like static method, but instead a function that creates instances of the class. This is the recommended way to instantiate data (best practice way).
* The main difference between a class method and a static method is that we do not have to pass a mandatory class reference (cls) in static method.
* Class and static methods can be called from instance level as well, but there are not a lot of good reason to call them from instance level. You can call both of them by just mentioning class name and calling them. (eg. Classname.method())