Lab #28

Programming and Algorithms

1. Create a superclass called TRADE\_DOCUMENT that has the following attributes:

* Customer\_name
* Customer\_addr1
* Customer\_addr2
* Customer\_addr3
* Phone\_number
* Date
* Product\_name
* Product\_cost

And the following methods:

* \_ \_init\_ \_( )

This is really a MIXIN class, as it is created to be inherited from.

2. Create a subclass SALES\_ORDER that has the following attributes:

* Order\_number
* Email\_address
* VAT\_number

And the following methods:

* Check\_email() – just print out a message saying “Checking {} is a valid email”, self.Email\_address

3. Create a subclass DISPATCH\_NOTE has the following attributes:

* Dispatch\_number
* Email\_Address
* VAT\_number
* VAT\_rate
* Transport\_number
* Total\_cost

And the following methods:

* Calcuate\_cost() – populate the Total\_cost attribute by taking the Product\_cost and using the VAT\_rate to calculate the net cost.

4. Create a subclass SALES\_INVOICE has the following attributes:

* Invoice\_number
* VAT\_rate
* Transport\_number
* Total\_cost

And the following methods:

* Send\_invoice() – just print out a message saying “Sending {} an invoice”, self.customer\_name

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| e-mail me a completed solution to each of the above programs in a Word document, and include Labs #25-27 in this document also.  e-mail to [Damian.Gordon@dit.ie](mailto:Damian.Gordon@dit.ie) with subject heading “DT255 PaA Lab #25-28” |