**Individual assignment: Software design 2**

**UML Diagram**

ssdi_shipment_uml.png

**Pseudo Code**

Main function begins

Declare variable of string type – customer\_from

Declare variable of string type – customer\_to

Declare variable of string type – address\_from

Declare variable of string type – address\_to

Declare variable of string type – packaging\_type

Declare variable of string type – service\_type

Declare variable of float type – weight

Set customer\_from = Raka Choudhury

Set customer\_to = Jane Doe

Set address\_from = UNC Charlotte 9201 University City Blvd Charlotte NC 28223

Set address\_to = SIU Carbondale 1230 Lincoln Drive Carbondale IL 62901

Set packaging\_type =box

Set service\_type=air

Set weight=5.0

Initialize priceBox=100, CostAir=1000

Call createShipment(address\_from,address\_to) function

Pack\_expense=Call getPackagingCost(Ipackaging)

Value returned=100.0

Serv\_expense=Call getServiceCost(Iservice)

Value returned=1000.0

Dist\_expense=Call getDistanceExpense(Icustomer)

Value returned=500.0

Total cost= Pack\_expense+ Serv\_expense+ Dist\_expense

=100.0+1000.0+500.0 =1600.0

Print total cost

Main function ends