

School of Science, Computing and Artificial Intelligence
The University of the West Indies, Five Islands



COMP0002 – Lab 1

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Exercise 1: UML Diagram

Product	
<ul style="list-style-type: none">- id: int- name: str- price: float- description: str- inStock: bool	
<ul style="list-style-type: none">+ Product(id=0:int, name= ' ':str, price=0.0:float, description= ' ':str, inStock=False:bool)+ getProductId(): int+ getProductName(): str+ getProductPrice(): float+ getProductDescription(): str+ isProductInStock(): bool+ setProductId(id:int): None+ setProductName(name:str): None+ setProductPrice(price:float): None+ setProductDescription(description:str): None+ setProductInStock(inStock:bool): None+ display_product_info(): None	

Exercise 2: UML Diagram

QuadraticEquationSolver	
<ul style="list-style-type: none">- a: float- b: float- c: float	
<ul style="list-style-type: none">+ QuadraticEquationSolver(a:float, b:float, c:float)+ solve(): float+ get_descriminant(): float+ get_solution_type(): str	

Exercise 3: UML Diagram

WeightReading	
<ul style="list-style-type: none">- truck_number: str- weight: float+ timestamp: str	
<ul style="list-style-type: none">+ WeightReading(truck_number:str, weight:float)+ set_timestamp(timestamp:str): None+ get_weight(): float+ get_truck_number(): str+ update_weight(new_weight: int): None+ is_overweight(max_weight:float): bool+ display_reading(): None	