# Coursework Report – 5COSC019C Object Oriented Programming

Student ID: 20210715/w1953977

Have you submitted the video with the demonstration of your system?

If the video has been submitted specify where:

Blackboard

On the cloud (file shared from Google drive, or OneDrive or DropBox, etc), or YouTube. Copy here the link:

https://drive.google.com/file/d/1tl6zWlrCjQAtAFQ5yeRuVbfS1hJsrBJk/view?usp=sharing

#### Phase 1 – Design and class implementation

Student Name: W.M. Sanjana Geeth

Task	Did you attempt the	Student's comments (To which extent you implemented the task? Have you encountered any
	task?	problems or issue?)
Design a UML Use Case Diagram of your	Xes No	Completed the UML Use Case Diagram
system (submitted in a separate file).		
Design a UML Class Diagram of your	Xes No	Completed the UML Class Diagram
system (submitted in a separate file).		_
Implementation Class Product	Xes No	Completed the Implementation Class Product
Implementation Class Electronics	Xes No	Completed the Implementation Class
		Electronics
Implementation Class Clothing	Xes No	Completed the Implementation of Class
		Clothing
Implementation Class User	Xes No	Completed the Implementation of Class User
Implementation Class Shopping Cart	⊠ Yes □ No	Completed the Implementation of Class
		Shopping Cart
Implementation Interface	⊠ Yes □ No	Completed the Implementation of Interface
WestminsterShoppingManager		WestminsterShoppingManager
		commercial about

#### Phase 2 - Console menu implementation

Task	Did you attempt the	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any
	task?	problems or issue?)
Add a product in the system with all the	⊠ Yes ☐ No	Completely Implemented with no problems or
relative information (max 50 doctors)		issues
Delete a product from the system by selecting the product ID. Display a message to confirm it has been removed and the total number of products in the	Xes No	Completely Implemented with no problems or issues
system.		
Print on the screen the list of the products in the system with all the relative information. The list should be ordered alphabetically.	⊠ Yes □ No	Completely Implemented with no problems or issues
Save in a file entered by the user so far. The user should be able to load back the information running a new instance of the application.	X Yes No	Completely Implemented with no problems or issues

### Phase 3 – GUI Implementation

Task  The user can select the category through the drop down menu	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)  Completely Implemented with no problems or issues
The GUI is open and a list of products with the information as per specification has been displayed	⊠ Yes □ No	Completely Implemented with no problems or issues
Items with low availability are highlighted in red	Yes No	Not Implemented
The user can select a product and all the details are displayed as per specification in the below panel	Xes No	Completely Implemented with no problems or issues
The user can add products to the shopping cart and all the information are displayed in a separate frame	Yes No	Completely Implemented with no problems or issues
The final price is displayed correctly	Xes No	Completely Implemented with no problems or issues

The discounts, if applicable, are displayed as per specification and the final price updated accordingly	∑ Yes ☐ No	Completely Implemented with no problems or issues

## Phase 4 – Testing and system validation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Test plan. (Submitted in a separate file).	Yes No	problems of issuery
Implementation of an automated unit test for each scenario in the console menu.	X Yes No	Methods that require user input loops indefinitely without completing.
Error Handling across all the code, input validation and code quality.	∑ Yes ☐ No	Input validations and error handling are used in necessary places.