

## **Programming Fundamentals**

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PROG10004: Programming Principles

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### Objects Table (Datatype) -

Number:	Object	Datatypes: User class	Datatype: Python/predefined
1.	Product	Product	NA
2.	Stock	Stock	NA
3.	SalesApplication	Application	NA

**Application** - The program the user will interact with.

**Stock** - Information regarding the stock of the product.

**Product** - Representation of a product. Mimics details of a product such as name, price, stock, cost, and an estimate of the monthly units.

### Table of Data Types -

Number	Object	Data Type: User-Defined	Data Type: Python
1.	productName	-	str
2.	productCode	-	int
3.	manufactureCost	-	float
4.	productPrice	-	float
5.	estMonthly	-	int
6.	stockLevel	-	int
7.	monthlyStock	int	-
8.	product	Product	-
9.	application	Application	-

**Product Name** - Name of the product

**Product Code** - Code of the product

**Manufacturing Cost** - Production cost of product

**Product Price** - Cost to purchase product

**Estimated Monthly** - Number of products units sold per month

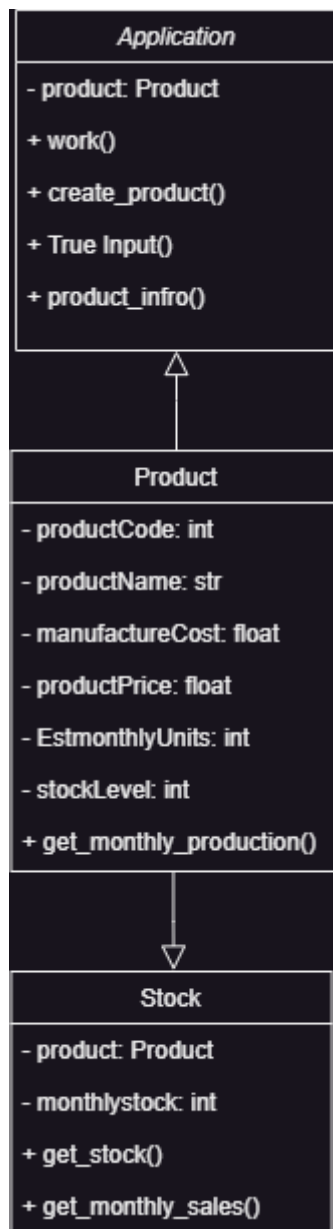
**Stock Level** - Number of products left

**Monthly Stock** - Stock of product left in month

**Product** - Products value and specifications

**Application** - Program the user interacts with

## UML and Class Relations



- Product class works with Stock class and Application class

## **Program Report -**

My experience in coding for this assignment was quite fun, I enjoyed being able to utilise the new tools we have been given. The assignment was a bit challenging and took some time to figure out . I'm not sure what I would add to the assignment in the future.