

Report: Object-Oriented Analysis, Design & Programming

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Course: Prog 10004 Programming Principles

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Github Link: <https://github.com/Mikeball1/Prog-Assign-2-Sales-Predictor.git>

**Tables:**

No.	Object
1	Item

No.	Object	Datatype: User defined Class	Datatype: Predefined Class / Type (Python)
1.	Item	Product	Not Applicable

**UML Diagram:**

Product
procode: int proName: string proSalePrice: float proManu: float Stoklev: int MonUnit: int

**Difficulties Encountered:**

An issue I encountered during the creation of the code is if the user inputted a value type that could not be converted into an integer. This would cause an error in the program and in order to resolve it, I used the `isdigit()` function to first check if the datatype can be converted to a string. If it can be, I would then proceed to convert the string to integer, and if it cannot be converted, the program requests a new input from the user that applies to the conditions.

**Limitations:**

A limitation my program has is the inability to repeat the code for another product.

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Product Sales Predictor  
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Enter the product code: 150

Are you sure.(y/n)

y

Enter the product name: Game

Are you sure.(y/n)

y

Enter product sale price: 70

Are you sure.(y/n)

y

Enter product manufacture cost: 20

Are you sure.(y/n)

y

Enter Stock level: 90

Are you sure.(y/n)

y

Enter estimated monthly units: 60

Are you sure.(y/n)

y

```

-----
Month 1 :
  Manufactured: 60
  Units Sold: 67
  Stock: 83
-----
Month 2 :
  Manufactured: 60
  Units Sold: 62
  Stock: 81
-----
Month 3 :
  Manufactured: 60
  Units Sold: 52
  Stock: 89
-----
Month 4 :
  Manufactured: 60
  Units Sold: 57
  Stock: 92
-----
Month 5 :
  Manufactured: 60
  Units Sold: 53
  Stock: 99
-----
Month 6 :
  Manufactured: 60
  Units Sold: 58
  Stock: 101
-----
Month 7 :
  Manufactured: 60
  Units Sold: 62
  Stock: 99
-----
Month 8 :
  Manufactured: 60
  Units Sold: 67
  Stock: 92
-----
Month 9 :
  Manufactured: 60
  Units Sold: 50
  Stock: 102
-----
Month 10 :
  Manufactured: 60
  Units Sold: 58
  Stock: 104
-----
Month 11 :
  Manufactured: 60
  Units Sold: 63
  Stock: 102
-----
Month 12 :
  Manufactured: 60
  Units Sold: 61
  Stock: 100
-----

The total units sold over 12 months is 710
The total units made over the 12 months are 720
Net Profit: 35300
PS C:\Users\User\OneDrive\Sheridan\Prog Assignment 2> 

```