**PYTHON ASSIGNMENT-2: Report  
STOCK MANAGEMENT**

**Sheridan College**

**Aditya Sharma**

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This assignment is based upon the concept of **OBJECT ORIENTED LANGUAGE.**  First we import random in the vs code as Python has an in-built random library used to generate random numbers with the help of various in-built functions.



After this process we import maths as Python has a set of built-in math functions, including an extensive math module, that allows you to perform mathematical tasks on numbers.

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Description automatically generatedNext we create a class “allinputs” where we take inputs from the user about details of the products such as current stock, product code, product name, sale price, manufacture cost, etc. In this process it may occur sometimes that user enter wrong type of data which may cause error in the code to overcome this error we use Try and Except method. Try and except method handles exceptions in the program, when we make a program it is common to have exception Instead of an emergency halt, we use a try except statement to properly deal with the problem. An emergency halt will happen if you do not properly handle exceptions.

We repeat this same process for inputs as well.

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Description automatically generatedAfter this process is finished we move on to next part Text

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Where we call this class, classes are used in a program to make it well oriented. Then we make another class in which we will make 2 functions first function will be

def confirmation():

in this function we take inputs again from the user for confirmation of the product details while creating 2 global variables.

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Description automatically generated This function allows user to confirm the details they entered to make it visually pleasing and increase the readibility of the data that was entered by the user. Moving on to next part we create one more function by the name

def products\_manufactured\_stocks():

This is important part of the code where we print all the statement for stock , unit sold and manufactured units for 12 months.

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After callling all the functions last part of the project is getting the net profit for which formula is.

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applying the same formula using 2 variables we will get our net profit. The main part where is faced the error was deciding the random digits that we were supposed to use in the code as well as designing of the code. A lot of times I faced error due to which my digits were displaying negative numbers which was not supposed to happen in the code. I faced this error for a lot of times times which I was able to encounter by watching many youtube tutorials and using class notes. At the starting of this projet I created an unnessecarily huge code which was completely incorrect because after reading the instructions multiple times. I realised that the data for product was supposed to be random numbers by this way I had to start all over again but fixed the code in very less time. The most time consuming part will be designing of the code as this project is upposed to be Oriented. But after many trials this code is completely fine and does not show any error although I had to use try and except method which helps in overcoming an error, I still wish that I could show the results using a colourful animation of the texts but as we are still in learning stage of the python I was not able to achieve that but this code still satisfies me because it meets all the requirement sas were mentioned and does not show any kind of error.