Creating Value for business in terms of financial returns of business

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Processing** | **Output** | |
| Investment  interest Rate  nrOfYears | Promp investment  Get investment  Prompt InterestRate  Get interestRate  Prompt nrOfYears  Get nrOfYears  Calculate returnsOnInvestments | returnsOnInvestment | |
| itemSellingPrice  quantity | Prompt itemSellingPriceGet itemSellinPrice  Prompt quantity  netGet quantity  Calculate revenue | revenue | |
| costOfSales | Prompt costOfSales  Get costOfSales  Calculate grossprofit | grossprofit | |
| expenses | Prompt expenses  Get expenses  Calculate netprofit  Calculate loss | netprofit | |
|  | Print Finances | |  |

Looking at modules and functions on Friday.

Modules :

**Functions** = group of code that can be called by name to perform a task. They require arguments (specific data values) to perform their tasks

e.g in python print (abs(8-9))

print is the function , the function is named “print” and (8-9) is the argument AKA parameter.

**Module** = group of functions

**Modules:**

* calculate\_returnsOnInvestment
* calculate\_revenue.
* Calculate\_percentage\_increase
* Calculate\_items\_profit

Could we potentially have the same functions in each module?

**Functions**: prompt (), display (), calculate(), print() , get() idk??

**Control structures required for each module maybe**:

DOWHILE, REPEAT..UNTIL.., IF STATEMENT( if net profit above 0 , display net profit , else display loss) or calculate loss.

Sorry, This is just to help see clearly where and how to approach the whole pseudocode thing

**Hierarchy diagram link** :

<https://app.diagrams.net/#LHierarchy%20Chart>

**OVERALL HIERARCHY DIAGRAM DRAFT LINK:**

<https://app.diagrams.net/?libs=general;flowchart#LHierarchy%20chart%20draft%20>

**Flowchart diagram link :**

<https://app.diagrams.net/?libs=general;flowchart#LFlowchart>

**Noku pseudocode:**

Start

Cost\_price = [itemx,itemy,itemz]

Prompt for Increase%

Get Increase%

Prompt for quantity

Get quantity

Item\_ID = 0

Prompt for expenses

Get expenses

DOWHILE item\_ID < quantity

Price% = cost\_price[item\_ID] \* Increase%

Selling\_price

**Calculations**

**returnsOnInvestments** = investment x interestRate x nrOfYears

or

=investment(1 + interestRate)

**revenu**e= itemSellingPrice x quantityOfItemSold

**grossprofit**= revenue - costOfSales

**netprofit**= grossprofit -expenses

**loss=** netprofit + (netprofit x 2) [we’ll look at it later]