Creating Value for business in terms of financial returns of business

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| --- | --- | --- |
| **Input** | **Processing** | **Output** |
| Investment  interest Rate  nrOfYears | returnsOnInvestments = investment x interestRate x nrOfYears  or  investment(1 + interestRate) to the power of the nrOfYears | returnsOnInvestment |
| itemSellingPrice  quantityOfItemSold | revenue= itemSellingPrice x quantityOfItemSold | revenue |
| Quantity | Selling\_price = cost\_price + price% | Display total\_amount\_earned  This is the same as revenue? |

|  |  |  |
| --- | --- | --- |
| Cost\_price  Item\_ID  Expenses | Price% =  Cost\_price  \* Increase%  Final\_price= selling\_price – cost\_price  Profit = Total\_amount\_earend - expenses | Display profit |
| Increase% | Total\_amount\_earned = Final\_price \*quantity | Is this percentage increase? |

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() ??

**Hierarchy diagram** :

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

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