This will be the main page for the grobot. The function is to create the intermediary between the GUI and the Database

* Proper Title for the document (including Author if possible)

Docstring:

#!/usr/bin/env python

"""

\_\_summary\_\_ = "mainPage.py: This page is the primary control page for users"

\_\_description\_\_ = "This is to be the primary intermediary handler between the GUI and the database system"

\_\_author\_\_ = ["Shawn Rice", "Timothy Kenno Han"]

\_\_date\_\_ = "April 14, 2018"

\_\_copyright\_\_ = "Copyright 2018, Creative Commons pending"

\_\_credits\_\_ = ["Shawn Rice", "Timothy Kenno Han", "Dale Frakes"]

\_\_license\_\_ = "GPL"

\_\_version\_\_ = "1.0"

\_\_maintainer\_\_ = "Shawn Rice"

\_\_email\_\_ = "shaw23@pdx.edu"

\_\_status\_\_ = "Prototype"

"""

import numpy as np

# Check for first visit or factory reset

def bootcount():

count = 1

while(count == 1):

name = input("What is your name?:")

count = count + 1

print("Welcome", name)

* Heading levels (at least Heading 1 and Heading 2)

Welcome

* Bulleted list (at least 2 levels deep)

\*Item 1

\*Nested Item

* Numbered list
* some Bold text
* some italics text
* a math formula (probably using LaTeX, see: [LaTeX/Mathematics](https://en.wikibooks.org/wiki/LaTeX/Mathematics" \t "_blank))

#gather information

loanAmount = input("How much would you like to borrow? \n")

interestRate = input("What is the interest rate? \n")

repaymentLength = input("For how many years is the loan expected to last? \n")

#strings to flops

loanAmount = float(loanAmount)

interestRate = float(interestRate)

repaymentLength = float(repaymentLength)

#interst to decimal

interestCalc = interestRate / 100

#print(interestRate)

#print(interestCalc)

#years to months

numberPayments = repaymentLength \* 12

#formula

#M = L[i(1+i)n-1] / [(1+i)n-1]

# M = monthlyPayment

# L = loanAmount

# I = interestRate

# N = numberPayments

monthlyRepaymentCost = loanAmount \* (interestCalc \* (1 + interestCalc) \*\* numberPayments - 1) / ((1 + interestCalc) \*\* numberPayments - 1)

monthlyRepaymentCost = float(monthlyRepaymentCost)

print(monthlyRepaymentCost)

print(numberPayments)

#full term of loan cost

totalCost = (monthlyRepaymentCost \* numberPayments) - loanAmount

print("You want to borrow $" + str(loanAmount) + " over " + str(repaymentLength) + " years, with an interest rate of " + str(interestRate) + "%!")

#print("Your monthly payment will be $" = str(monthlyRepaymentCost))

print("Your monthly payment will be $%.2f !" % monthlyRepaymentCost)

print("The total charge for this loan will be $%.2f !" % totalCost)