

FamilyBank-cohort II-Assignments-Group-1

Python Assignment 1

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1 # Question 1
2 # Print squares of numbers 1 - 6
3 print('Question 1')
4 print("Squares of numbers 1 - 6:")
5 print("Number Sqaure")
6
7 for i in range(1, 7):
8     print(i, "\t", i*i)
9 print()          #Print empty line between questions
10 #-----#
11
12
13 # Question 2
14 # Prints the length of any string
15 print('Question 2')
16
17 def findStringLength(a):
18     stringLength = len(str(a))
19     print("Length of '{}' is {} characters".format(a,stringLength))
20 findStringLength('Paul') # change 'Paul' to any string to get its length
21 findStringLength("Power Learn Project (PLP)")
22 userString = input("Enter a string then press Enter\n")
23 findStringLength(userString)
24 print()          #Print empty line between questions
25
26 #-----#
27
28
29 # Question 3
30 # Prints the character at specified position in a sentence or string
31 print('Question 3')
32 print('Print the character at index i in the string "Live happily "')
33
34 def printChar(a):
35     my_string = a
36
37     while True: # Loop to ensure correct input
38         try:
39             index = int(input("Please enter string index to be printed.
40 (starting 0 and above)\n"))
41             break
42         except ValueError:
43             print("Invalid input. Please enter a whole number")
44     stringLength = len(my_string)
45
46     if index >= stringLength:
47         print("{} is out of range".format(index))
48     elif stringLength == 0:
49         print("Empty String")
50     else:
51         print("{} is the {}th character in {}".format(
52             my_string[index], index, my_string))
53
54 printChar("Live Happily") # Call printChar function
55                          # to print any characters in 'Live Happily'

```