Python Essentials Module 3 Assignment

Module3AssignmentQ1.py (Question 1):

Command: py -2 Module3AssignmentQ1.py

**import random**

**level = raw\_input ('Choose level (easy, intermediate, and hard): ')**

**questionsNo = raw\_input ('Please give us the number of question you want to attempt: ')**

**questionsNo = int(questionsNo)**

**questionType = raw\_input ('Specify the question type (multiplication:M, addition:A, subtraction:S, division:D): ')**

**i = 1**

**for i in range(questionsNo):**

**if level == 'easy':**

**op1 = random.randint(1,11)**

**op2 = random.randint(1,11)**

**elif level == 'intermediate':**

**op1 = random.randint(-21,21)**

**op2 = random.randint(-21,21)**

**else:**

**op1 = random.randint(-101,101)**

**op2 = random.randint(-101,101)**

**op1 = float(op1)**

**op2 = float(op2)**

**if questionType == 'M':**

**operator = 'multiplied by'**

**ans = op1 \* op2**

**elif questionType == 'A':**

**operator = 'added to'**

**ans = op1 + op2**

**elif questionType == 'D':**

**operator = 'divided by'**

**ans = op1 / op2**

**else:**

**operator = 'subtracted by'**

**ans = op1 - op2**

**ansInput = raw\_input('What\'s %d %s by %d?' %(op1, operator, op2))**

**ansInput = float(ansInput)**

**print(ans)**

Module3AssignmentQs234.py (Question 2 - 4):

Command: py -2 Module3AssignmentQs234.py

**from operator import itemgetter**

**x = int(raw\_input('Please enter x: '))**

**n = int(raw\_input('Please enter n: '))**

**xNPower = 1**

**def nPower(x, n):**

**xNPower = 1**

**if n >= 1:**

**for i in range(1, n + 1):**

**xNPower = xNPower \* x**

**print ('%d to the power %d = %d' % (x, n, xNPower))**

**elif n <= -1:**

**xNPower = float (xNPower)**

**x = float (x)**

**for i in range(n, 0):**

**xNPower = xNPower / x**

**print ('%d to the power %d = %f' % (x, n, xNPower))**

**else:**

**xNPower = 1**

**print ('%d to the power %d = %d' % (x, n, xNPower))**

**return**

**nPower(x, n)**

**mylist = [["john", 1, "a"], ["larry", 0, "b"]]**

**print (mylist)**

**mylistLambda = sorted(mylist, key = lambda n : n[1])**

**print (mylistLambda)**

**mylistItemgetter = sorted(mylist, key = itemgetter(1))**

**print (mylistItemgetter)**

# Output:

C:\Users\admin\Desktop\Courses\Python\Edureka>py -2 Module2AssignmentQ1.py

What is the total amount for your online shopping?1

Shipping within the US or Canada?US

FREE

C:\Users\admin\Desktop\Courses\Python\Edureka>py -2 Module2AssignmentQs234.py

Enter your name: Jon

Hello Jon.

What is the current temperature in Farenheit: 12.4

-10.888889 C

How many hours do you work? 40

How much are you paid per hour? 5

You earn 200.000000 per week.

C:\Users\admin\Desktop\Courses\Python\Edureka>py -2 Module2AssignmentQ5.py

[4, 7, 3, 2, 5, 9]

a[0] = 4

a[1] = 7

a[2] = 3

a[3] = 2

a[4] = 5

{'A': 1, 'C': 3, 'B': 2, 'E': 5, 'D': 4, 'G': 7, 'F': 6, 'I': 9, 'H': 8, 'K': 11, 'J': 10, 'M': 13, 'L': 12, 'O': 15, 'N': 14, 'Q': 17, 'P': 16, 'S': 19, 'R': 18, 'U': 21, 'T': 20, 'W': 23, 'V': 22, 'Y': 25, 'X': 24, 'Z': 26}

{'a': 1, 'b': 2}

{1: 'a', 2: 'b'}

{'a': 1, 'c': 3, 'b': 2, 'd': 4}