Module 1: Getting Started with Python

Assignment

edureka!

1. Write a program to print the:

   a. Number of lowercase "a" and "o" in the following sentence.
   b. Number of uppercase "L" and "N" in the following sentence.

   'Discover, Learning, with, Edureka'

Solution:

```
>>> s = 'Discover, Learning, with, Edureka'

>>> s.count('o')

1

>>> s.count('a')

2

>>> s.count('L')

1

>>> s.count('N')

0
```

2. Write a program to remove the following from:

www.edureka.in

    a. Remove all w's before and after .edureka.
    b. Remove all lowercase letter before and after .edureka.
    c. Remove all printable characters

Solution:

```
import string

s = 'www.edureka.in'

>>>print s

>>>print s.strip('w')

www.edureka.in

>>>print s.strip(string.lowercase)

.edureka.in

>>>print s.strip(string.printable)

.edureka.
```

Page 2

3. Identify the type of numbers:

a. 0X7AE
b. 3+4j
c. -01234
d. 3.14e-2

Solution

a. 0X7AE - Hex Constants
b. 3+4j - Complex Numbers
c. -01234 - Octal Constants
d. 3.14e-2 - Floating Point Numbers

4. Write a program for String Formatting Operator % which should include the following conversions:

a. Character
b. Signed decimal integer
c. Octal integer
d. Hexadecimal integer (UPPERcase letters)
e. Floating point real number
f. Exponential notation (with lowercase 'e')

Solution

>>>"My name is %s and my age is %d years!" % ('Ana', 21)

'My name is Ana and my age is 21 years!'

>>>"My car's number is %o" %('0010')

'My car's number is 0010'

>>>"My pan card number is %X" % ('0XB5')

'My pan card number is 0XB5'

>>>"My weight is approximately %f" % ('55.53')

'My weight is approximately 55.53'

>>>"Currently my account balance is %e" % ('4.5e6')

'Currently my account balance is 4.5e6'