

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’  
  
Answer:  
>>> input\_str = 'Discover, Learning, with, Edureka'  
>>> input\_str  
'Discover, Learning, with, Edureka'  
>>> a\_count = input\_str.count('a')  
>>> o\_count = input\_str.count('o')  
>>> L\_count = input\_str.count('L')  
>>> N\_count = input\_str.count('N')  
>>>   
>>> a\_count  
2  
>>> o\_count  
1  
>>> L\_count  
1  
>>> N\_count  
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  
  
Answer:  
  
>>> input\_str = 'www.edureka.in'  
>>> match\_str = '.edureka.'  
>>> **if** match\_str **in** input\_str:  
... **print** input\_str.strip('w')  
... **print** input\_str.strip(string.lowercase)  
... **print** input\_str.strip(string.printable)  
... **else**:  
... **print** "Wrong Match"  
...   
.edureka.**in**.edureka.  
  
>>>   
  
####################################  
  
3. Identify the type of numbers:  
a. 0X7AE  
b. 3+4j  
c. -01234  
d. 3.14e-2  
  
Answer:  
>>> type(0X7AE) # Hexa Decimal Value  
<type 'int'>  
>>>   
>>> type(3+4j)  
<type 'complex'>  
>>>   
>>> type(-01234) # Octal Decimal Value  
<type 'int'>   
>>>   
>>> type(3.14e-2)  
<type 'float'>  
>>>  
####################################  
  
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')  
  
Answer:  
  
>>> char = 'Manoj'  
>>> signed\_int = 1234  
>>> octal\_int = 030  
>>> hexa\_int = 0X30  
>>> float\_num = 16.52  
>>> expon\_not = 1.652e1  
>>>   
>>>   
>>> **print** "Employee Name is %s" %(char)  
Employee Name **is** Manoj  
>>> **print** "Employee ID is %d" %(signed\_int)  
Employee ID **is** 1234  
>>> **print** "Department ID is %o" %(octal\_int)  
Department ID **is** 30  
>>> **print** "Department Name is %X" %(hexa\_int)  
Department Name **is** 30  
>>> **print** "Salary in USD' is %f" %(float\_num)  
Salary **in** USD' is 16.520000  
>>> **print** "Salary in Expon' is %e" %(expon\_not)  
Salary **in** Expon' is 1.652000e+01  
>>>  
####################################