i) It takes command line arguments and puts it in a list. Then multiplies each value in the list by 2. Then reverses the list.

ii) There is no call to the function do\_stuff(). Therefore, the print statement never executes

iii)

import sys

def do\_stuff():

int\_list = [int(x) for x in sys.argv[1:]]

int\_list = [x\*2 for x in int\_list]

int\_list = int\_list[::-1]

print(int\_list)

if \_\_name\_\_ == '\_\_main\_\_':

do\_stuff()

[

{

"name" : "Lorenzo",

"role" : "instructor",

"favourite\_number" : "8"

},

{

"name" : "Arthur",

"role" : "adventurer",

"favourite\_number" : "42"

}

]

There was a missing comma after the role “instructor”

[

{

"name" : "Lorenzo",

"role" : "instructor",

"favourite\_number" : "8"

},

{

"name" : "Arthur",

"role" : "adventurer",

"favourite\_number" : "42"

},

{

"name" : "kung fu",

"role" : "Panda",

"favourite\_number" : "69"

},

{

"name" : "jack",

"role" : "Black",

"favourite\_number" : "420"

}

]

import json

with open("data.json", "r") as inF:

content = json.load(inF)

data = content[::-1]

with open("samplefile.txt", "w") as fifi:

json.dump(data, fifi)

3)

import matplotlib.pyplot as plt

f = open("moby.txt", "r")

text = f.read()

theDict ={chr(y):((text.count((chr(y)).lower()))+(text.count((chr(y)).upper()))) for y in range(65,91)}

print(theDict)

freqDict = {chr(y):((text.count((chr(y)).lower()))+(text.count((chr(y)).upper())))/(sum(theDict.values())) for y in range(65,91)}

print(freqDict)

plt.bar(freqDict.keys(), freqDict.values(), color='g')

plt.show()

'A': 0.08163145461307607, 'B': 0.017728454230855218, 'C': 0.02402840179138983,

'D': 0.04002192361146168, 'E': 0.12297518243061559, 'F': 0.021900946073891224,

'G': 0.021935974400474737, 'H': 0.0657038684665732, 'I': 0.06870188112416202,

'J': 0.00121259824672923, 'K': 0.008476855033209944, 'L': 0.04467141884297316,

'M': 0.024403410934813314, 'N': 0.0688100568386111, 'O': 0.0729609135387573,

'P': 0.01841665782373128, 'Q': 0.0016288171861333156, 'R': 0.05522112661400742,

'S': 0.06711839471360737, 'T': 0.09266331699708337, 'U': 0.028035024205603915,

'V': 0.00899094723806796, 'W': 0.023243355177959352, 'X': 0.0010972108179835428,

'Y': 0.01776554304723776, 'Z': 0.0006562660009910956

Chart, histogram

Description automatically generated