PYTHON LIBRARIES

ASSIGNMENTS

Q.1 What is the output of the following piece of code?

```
#mod1
def modify(a):
    b=[x*2 for x in a]
    print(b)
#mod2
def modify(a):
    b=[x*x for x in a]
    print(b)
from mod1 import modify
from mod2 import modify
#main
s=[1,2,3]
modify(s)
```

Q.2 What are Python libraries? Name a few of them.

Q.3 Whats the difference between a module and a library in Python?

Q.4 Which are the file related libraries/modules in Python?

Q.5 What is the purpose of PYTHONPATH environment variable?

Q.6 What Packages in the Standard Library, Useful for Data Science Work?

Q.7 Which library would you prefer for plotting in Python language: Seaborn or Matplotlib?

Q.8 Which Python library would you prefer to use for Data Munging?

Q.9 Which python library is built on top of matplotlib and Pandas to ease data plotting?

Q.10 Which python library is used for Machine Learning?

Q.11 How to write a Python module/package?

Q.12 How can we use third party 'libraries' in python?

Q.13 Write a function called sed in library dummy that takes as arguments a pattern string, a replacement string, and two filenames; it should read the first file and write the contents into the second file (creating it if necessary). If the pattern string appears anywhere in the file, it should be replaced with the replacement string.

Q.14 create a module example.py with function add() with two arguments ,it sum the values of argument and return the result.Use this function in another program.

Q.15 define a library named buzz with a function called my_buzz that takes a number.

If the number is divisible by 3, it should return "Fizz".

If it is divisible by 5, it should return "Buzz".

If it is divisible by both 3 and 5, it should return "FizzBuzz".Otherwise, same no

Use the above function in another program.