Review Question:

Note: Answer at the end of each question with Red

What is the result of the following operation in Python: 3 + 2 \* 2=

7

In Python, if you executed name = 'Lizz', what would be the output of print(name[0:2])?

Li

In Python, if you executed var = '01234567', what would be the result of print(var[::2])?

0246

In Python, what is the result of the following operation '1'+'2'

'12'

Given myvar = 'hello', how would you convert myvar into uppercase?

myvar.upper()

What is the syntax to obtain the first element of the tuple:  
A=('a','b','c') A[0] After applying the following method,L.append(['a','b']), the following list will only be one element longer.

True

How many duplicate elements can you have in a set?

0, you can only have one unique element in a set

Consider the following Python Dictionary:  
  
Dict={"A":1,"B":"2","C":[3,3,3],"D":(4,4,4),'E':5,'F':6}  
  
, what is the result of the following operation: Dict["D"]

(4, 4, 4)

What is an important difference between lists and tuples?

Lists are mutable tuples are not

What is the output of the following lines of code:  
  
x=1  
  
if(x!=1):  
  
print('Hello')  
  
else:  
  
print('Hi')  
  
print('Mike')

Hi Mike

What is the output of the following few lines of code ?  
  
A=['1','2','3']  
  
for a in A:  
  
print(2\*a)

'11' '22' '33'

Consider the function Delta, when will the function return a value of 1  
  
def Delta(x):  
  
if x==0:  
  
y=1;  
  
else:  
  
y=0;  
  
return(y)

When the input is 0

Consider the function Delta, when will the function return a value of 1  
  
def Delta(x):  
  
if x==0:  
  
y=1;  
  
else:  
  
y=0;  
  
return(y)

When the input is 0

What is the correct way to sort the list 'B' using a method, the result should not return a new list, just change the list 'B'.

B.sort()

what are the keys of the of the following {'a':1,'b':2}

a,b

What do the following lines of code do?  
  
with open("Example1.txt","r") as file1:  
  
FileContent=file1.readlines()  
  
print(FileContent)

Read the file "Example1.txt"

What do the following lines of code do?  
  
with open("Example2.txt","w") as writefile:  
  
writefile.write("This is line A\n")  
  
writefile.write("This is line B\n")

Write to the file "Example2.txt"

What do the following lines of code do?  
  
with open("Example3.txt","a") as file1:  
  
file1.write("This is line C\n")

Append the file "Example3.txt"

What is the result of applying the following method df.head(), to the dataframe df

prints the first 5 rows of the dataframe

what is the result of the following lines of code:  
  
a=np.array([0,1,0,1,0])  
  
b=np.array([1,0,1,0,1])  
  
a\*b

array([0, 0, 0, 0, 0])

what is the result of the following lines of code:  
  
a=np.array([0,1])  
  
b=np.array([1,0])  
  
np.dot(a,b)

0

what is the result of the following lines of code:  
  
a=np.array([1,1,1,1,1])  
  
a+10

array([11, 11, 11, 11, 11])

what is the correct code to perform matrix multiplication on the matrix A and B

np.dot(A,B) np.dot(A,B)

Final Exam:

1. D
2. B
3. B
4. B
5. A
6. D
7. C
8. C
9. Neither B nor d , You need to choose between a & b,
10. A
11. C
12. A
13. D
14. B
15. Neither A nor D, you need to choose b/w b and c,
16. A
17. A
18. C
19. B
20. C
21. D
22. B
23. C
24. D
25. A