**Control Structures**

1) How many times does this code print?

 for i in range(3):

 print(i)

 for J in range(2):

 print(j)

2) What does this code print?

 b=1

 if b < 10:

 print(“Less than 10”)

 elif b == 1:

 print(“b is one”)

3) What does this code print?

 c=1

 if c > 0:

 print(“more than 10”)

 if c == 1:

 print(“c is one”)

**Lists**

l = [[1,100], [2, -200], [-3, 300], [-4,400], [5, -500], [-6, 600]]

1) Write me a loop that prints the first number of each pair (the 1, 2, -3, -4, 5, and 6).

2) Write a line of code that prints the 400 above. It must get the 400 from the list using array subscripts (i.e. use some [ ])

**RegEx**

1) Given the regex ‘^c?[at]?$’ which words match? (Pick zero or more or lots)

 cat dog hat at bat ccccccccat

2) Write a regex that matches two, twO, tWo, tWO and nothing else.

**Files**

1) (Yes/No) Could this code produce the output [“file1.txt”, “file2.jpg”, “file3.html”]

 l = glob.glob(“[\\home\\rappleto\\Desktop\\subfolder\\\*.txt](../..//rappleto//Desktop//subfolder//%2A.txt)”)

 print(l)

**Code to Write**

0) Make me some code that prints the stuff below. YOU MUST USE LOOPS.

1 1

1 2

1 3

2 1

2 2

2 3

3 1

3 2

3 3

4 1

4 2

4 3

5 1

5 2

5 3

6 1

6 2

6 3

1) Write me some code USING A LOOP that sums the positive numbers in the second half of each pair. You should get 1400.

l = [[1,100], [2, -200], [-3, 300], [-4,400], [5, -500], [-6, 600]]

2) Write a regex that 3 letter strings with a middle letter of ‘a’. For example, it should match “aaa”, “bat”, ‘cat”, “kaw”, “waw” but not “a”, “at”, “dog”, “wug”, “ggo”, or “waaaaaaa”. That web site is https://www.regex101.com

3) Write me a program that counts how many files are on your desktop. The path to my desktop

 is \\Users\\rappleto\\Desktop.