In-Class Worksheet #7

proj04.py – /Users/bill/classes/231-p/FS08/exam2/proj04.py

```
def f1 (fd,s):
    for ln in fd:
        wrds = ln.split()
        for w in wrds:
            s.add(int(w))

def f2 (s,l=[0,1,2,3]):
    tempSet = set(l)
    if l[0]:
        diff = s.difference(tempSet)
    else:
        diff = s.symmetric_difference(tempSet)
    return diff

fd = open("file.txt",'r')
mySet = set()
f1(fd,mySet)
result = f2(mySet)
print len(mySet)            # Line 1
print 1 in mySet            # Line 2
print result                # Line 3
result = f2(mySet,[3,2,1])
print result                # Line 4
```

Ln: 23 Col: 36

Contents: file.txt

file.txt –...

```
1 2 3
4 5 6
3 2 1
```

Ln: 1 Col: 3

Name:

Name:

Name:

1) What output does Line 1 produce in the given program? KEY: A,C,C,D
   a) 6
   b) 7
   c) 8
   d) 9
   e) None of the above
2) What output does Line 2 produce in the given program?
   a) 0
   b) 1
   c) True
   d) False
   e) None of the above
3) What output does Line 3 produce in the given program?
   a) set([0,1,2,3])
   b) set([1,2,3,4,5,6])
   c) set([0,4,5,6])
   d) set([4,5,6])
   e) None of the above
4) What output does Line 4 produce in the given program?
   a) set([4,5,6])
   b) set([1,2,3,4,5,6])
   c) set([0,4,5,6])
   d) set([0,1,2,3])
   e) None of the above

Write a program that does the following:

- prompt the user for a filename
- record the longest word in each line, along with the line
- print for each line: the line number, the word, the line and its length

test.py – /Users/bill/Desktop/test.py

```
fName = raw_input("File name:")
fd = open(fName,'r')

lineDict={}
cnt = 0
for line in fd:
    line = line.strip()
    wordList = line.split()
    longest = ''
    for w in wordList:
        if len(w) > len(longest):
            longest = w
    print longest,line
    lineDict[cnt]=(longest,line)
    cnt += 1

for k,v in lineDict.items():
    print '%d - %s - %d - %s'%(k,str(v[0]),len(v[0]),v[1])
```

Ln: 18 Col: 58