**1.Print statements for checking that variables have the expected values**

(1). In Line B, assign s[:m-1] to first instead of s[:m]. Then, in the command shell, run

Hyphenator even.py. (That is, type python Hyphenator even.py in the command shell. Don’t

forget to save the file in Pycharm Edit first.) Give the input 'abcdef'.

* 1. Which variable has an unexpected value, and what should the variable’s value have been?

Unexpected value:

First is ab

Exped one:

First is abc

* 1. Which print line tells you this?

Line B

(2). Fix the mistake you made above. Now, introduce a new artificial mistake via Komodo Edit:

in Line C, assign s[m+1:] to second instead of s[m:]. Suppose you run Hyphenator even.py and

give it input 'abcdef'.

2.1) Which variable has an unexpected value, and what should the variable’s value have been?

Unexpected value:

second is ef

Exped one:

second is def

2.2) Which print line tells you this?

Line C

1. **Finding errors using print statements**

**4. The If-Else Construction**

a) By assigning s as “apples”

the initial output is “Plural”

After changing comparing string to “ss”

The output is “Not Plural”

**b)**

**5. Pretty printing**

1. In other words, center the numbers under the column headings, display the Quotient through seven decimal places, and display the Error with three significant digits. Do this by playing with theformat specifications and blanks in the string ’%3d %3d %22.15f %10.6e’. What does your new print statement look like?

'%3d %3d %9.7f %1.2e'

1. Change the first print statement to

print '\n\n\n\nNumerator Denominator Quotient Error'

What does \n seem to do?

\n gives a line space in the output terminal.

**6.IF-Elif-Else**

Complete the following table:

|  |  |  |
| --- | --- | --- |
| x | y | Output |
| 2 | 2 | A |
| 1 | 0 | C |
| 4 | 1 | B |
| 1 | 5 | D |
| 0 | 3 | E |
| 3 | 0 | C |