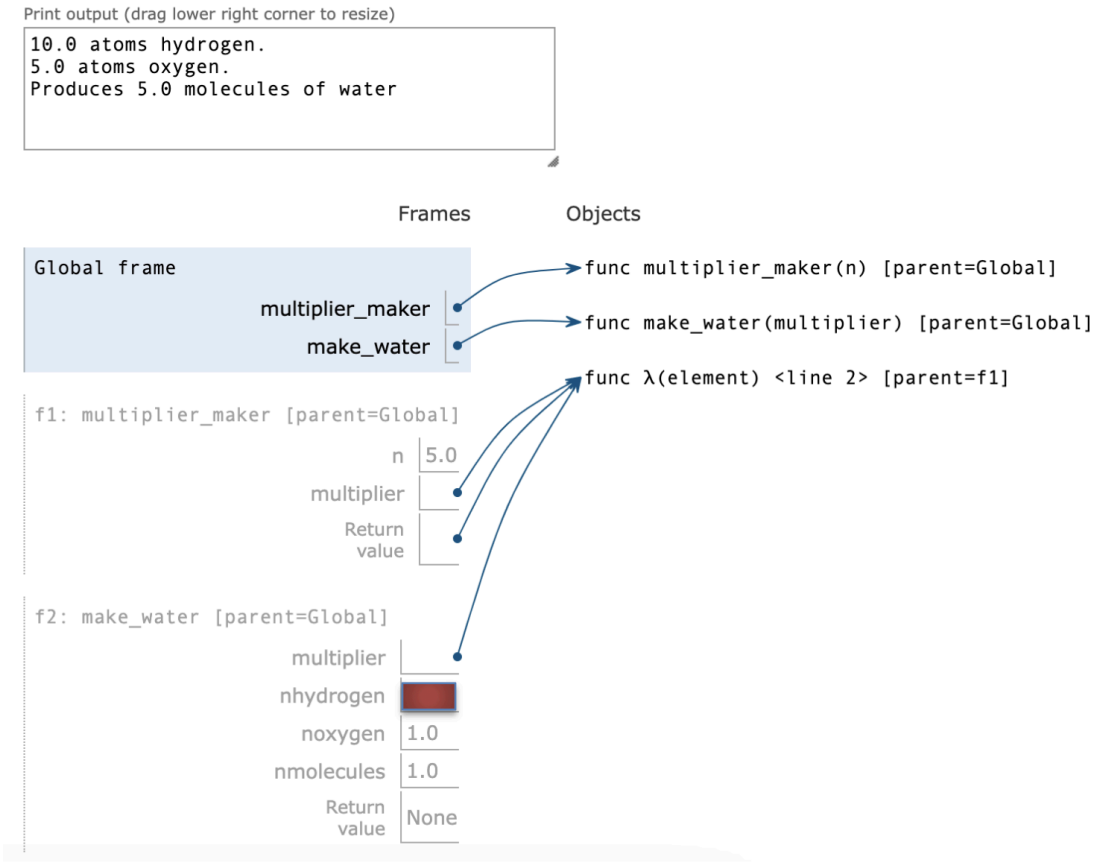
(8.0 points) **Chem 105**

Consider the environment diagram (and print output) below, followed by the code that generated it.




```
def multiplier_maker(n):
      return lambda element : _________(a)* n

def make_water( multiplier ):
    nhydrogen,noxygen = 2.0, 1.0
    nmolecules = _________(d)
    print( str(multiplier(nhydrogen) ) + ' atoms hydrogen.' )
    print( str(multiplier(noxygen) ) + ' atoms oxygen.' )
    print( 'Produces ' + str(multiplier( ____(b) )) + ' molecules of
water.' )

make_water( _________(c)(5.0) )
```

1. (2.0 pt) Which one of these could fill in blank **(a)**?

```
A. n
B. element
C. multiplier
D. make_water
E. 3.0
F. 5.0
```

2. (2.0 pt) Which one of these could fill in blank **(b)** to get the environment diagram shown?

```
A. nmolecules
B. nhydrogen
C. noxygen
D. lambda x : x
E. 10.0
F. 1.0
```

3. (2.0 pt) Which one of these could fill in blank **(c)**?

```
A. element
B. make_water
C. nmolecules
D. lambda x : multiplier_maker(x)
E. multiplier
F. lambda element : element * n
G. multiplier_maker
```

4. (2.0 pt) Which one of these could fill in blank **(d)**?

```
A. 3.0
B. 6.0
C. 9.0
D. 1.0
E. 9.0, 3.0
F. 5.0
G. multiplier
```