

Practice Quiz 4

1. For each of the following expressions, show the value that will be returned by the Python interpreter and list the type of the resulting value. Assume the following assignments:

```
s = "Hi Tia!"  
L = list(s)
```

VALUE

TYPE

```
s.isalpha()
```

```
s.split()
```

```
":".join(L)
```

```
randrange(1,5)
```

```
L[1] == 'H'
```

2. Write a function called `printNoComments` that is passed the name of a file (a string), opens the file, and prints out every line in the file that does not start with a pound sign (`#`). Also show how you would call your function from `main()`.
3. Write a function called `getYesOrNo` that, given a question (in the form of a string), asks the user the question and returns `True` if they enter `y` and `False` if they enter `n`. Any other input from the user should result in the question being asked again. Also show how you would call your function from `main()`.
4. Write a function that asks the user to enter test scores, and then returns the test scores as a list. The function should continue asking for test scores until the user enters a value of `-1`. You can assume the user provides valid numerical input. Also show how you would call your function from `main()`.

5. What is the output of the following program? Also, draw the stack as it would look just before the `print mylist` statement in `listfunc`.

```
def listfunc(mylist,x):
    print "in listfunc"
    for i in range(len(mylist)):
        if mylist[i] < x:
            mylist[i] = mylist[i] + x
    # draw the stack here
    print mylist
```

program output:

```
def main():
    print "in main"
    L = [2,30,18,5,100]
    print L
    listfunc(L,10)
    print "end of main"
    print L
```

stack diagram:

```
main()
```