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1) Determine what each of the following Python expressions will return. In other words, if these expressions were entered into the Python terminal, what would they return? (5 points each)

a.

5/2

>>> 2

b.

5./2.

>>> 2.5

c.

5%3

>>> 2

d.

not(5>6) and (True or False)

>>> True and True

e.

(5==4) or (not True)

>>> False

a. for i in range(3): >>> 0,1,4 print i\*i >>> hi print "hi" b. s=0 for x in [5,3,1]: >>> 5,8,9 s=s+x print s c. x=16 while x > 5: >>> 4 x=x/2print x d. a=7 if a%2==1: print "yoda" else: >>> yoga

print "do yoga"

2) Write the output of the following programs. (8 points each)

- 3) The following questions are about Git. (10 points each)
- a. Explain how to create a new git repository. Include all terminal commands and things you must do on github. Assume your github user name is "Charlie" and your project is in a folder named "Project" in your Documents folder. Name the repository "ProjRepo".

```
>>>cd documents/Project
>>>git init
>>>git add .
>>>git commit -m"name"
>>>git remote add origin https://github.com/name/projectrepo git .
>>> git push origin master
```

b. Explain how to clone a repository name "Awesome" from github user named "Barry22". Clone the repository into your Documents folder.

>>> cd documents/Project

>>> git clone http://github.com/Barry22/Awesome git.

4) Write a program that constructs an array filled with all of the prime numbers between 2 and 100. (20 points)

```
a=[]

for i in range[2,101]:
    prime=true
    for x in range(2,i):
        if i%x==0
        prime=False

if prime
a=a+[i]
print a
```