1) Determine what each of the following Python expressions will return. In other words, if these expressions	s 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

e.

(5==4) or (not True)

>>>false

2) Write the output of the following programs. (8 points each) a. for i in range(3): print i*i print "hi" 0 1 4 hi b. s=0 for x in [5,3,1]: s=s+xprint s 5 8 9 c. x=16 while x > 5: x=x/2print x 4 d. a=7 if a%2==1:

print "yoda"

else:

print "do yoga"

yoda

- 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".

```
log in to github.com(as charlie)
creat a new repository and name it "projrepo"
use git terminal:
cd Documents/project
git init
git add .
git commit -m"project"
git remote add origin https://github.com/charlie/projrepo.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
git clone https://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(2,100):
prime+true
for x in range(2,i):
if i%x==0
prime=false
if prime:
a=a+1
```