Exam 1

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

e.

(5==4) or (not True)

false

 $\mathbf{2}$) 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+x
print s
 9
  c.
x=16
 while x > 5:
       x=x/2
print 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".
cd Documents/project git init git add . git commit -m"project" git remote add "https://gitub.com/charlie/project.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 dauments git clone https://www.gitub.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 prime=false if prime: a=a+[1]	;)