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

```
2) Write the output of the following programs. (8 points each)
  a.
for i in range(3):
      print i*i
print "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"

- 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".

```
>>> $ git config --global user.name "Charlie"
    $ git config --user.email charlie@ef.com
    $ cd Documents/Project
    $ ls
    $ git init
    $ git add .
    $ git commit -m ""
    $ 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
```

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