

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 Answer:2

b.

5./2. Answer:2.5

c.

5%3 Answer:2

d.

not(5>6) and (True or False) Answer:Ture

e.

(5==4) or (not True) Answer:False

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

a.

```
for i in range(3):  
    print i*i  
print "hi"
```

Answer:0

1

4

hi

b.

```
s=0  
for x in [5,3,1]:  
    s=s+x  
print s
```

Answer:5

8

9

c.

```
x=16  
while x > 5:  
    x=x/2  
print x
```

Answer:X=4

d.

```
a=7
if a%2==1:
    print "yoda"
else:
    print "do yoga"
Answer: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".

Answer:cd documents

mkdir Project

cd Project

put files in project

git init

git add .

git commit - m" my comment"

git remote add orgin <https://github.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.

Answer:in the termina,type cd path/to/where u want/folder and git clone <https://github.com/Barry22/Awesome>

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

Answer: a=[]

for i in range(2,100):

prime=true

for x in range(2,i):

if i

prime=false

if prime:

a=a+[i]