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"
   0\ 1\ 4\ \mathrm{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".
   Go online and create a new repository named "ProjectRepo"
   Once created open your terminal and type: cd documents/Project then enter: git init then: git add . then:
git command -m "first commit" then: git add origin https://github.com/Charlie/ProjectRepo.git finally: 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/ProjectRepo
   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)
```

for num in range(1,201):

print num

if all(num(percent sign)5i!=0 for i in range(2,num)):