(5==4) or (not True)

Name : TaeyoungLee______(3 points)

$\mathbf{Exam}\ \mathbf{1}$

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)
$\mathbf{a}.$
5/2
returns 2
b.
5./2.
returns 2.5
c.
5%3
returns 2
d.
not(5>6) and (True or False)
returns True
e.

returns False

```
a.
for i in range(3):
       print i*i
print "hi"
returns
 0
 1
 4
hi
  b.
 s=0
for x in [5,3,1]:
       s=s+x
print s
returns 9
  c.
x=16
 while x > 5:
       x=x/2
print x
returns 4
```

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

d.

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

returns 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 global --config user.name "Charlie"
    git global --config user.email ~
    git init
    git add .
    git remote add origin https://github.com/Charlie/ProjRepo.git
    git push -u origin remote
```

b. Explain how to clone a repository name "Awesome" from github user named "Barry22". Clone the repository into your Documents folder.

1.cd documents

2.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+[i]
```