```
1
blastoff!
0
```

[ ]:
```
n=5
while n>0:
    print('lather')
    print('rinse')
print('Dry off!')
```

```
lather
rinse
lather
rinse
lather
rinse
lather
rinse
lather
rinse
lather
rinse
lather
rinse
lather
rinse
lather
rinse
```

[ ]:

[212]:
```
def greet():
    return "hello"
print(greet(),"glenn")
print(greet(),"Sally")
```

```
hello glenn
hello Sally
```

[214]:
```
def addtwo(a,b):
    added= a+b
    return added
x=addtwo(3,5)
print(x)
```

```
8
```

[216]:
```
n=5
while n>0:
    print(n)
    n=n-1
print('blastoff!')
print(n)
```

```
5
4
3
2
1
blastoff!
0
```

[ ]:
```
n=5
```

```
-2.5
```

[204]:
```
x=5
print('hello')
def print_lyrics():
    print("I'm a lumberjack, and I'm okay")
    print('I sleep all night and I work all day.')
print('yo')
print_lyrics()
x=x+2
print(x)
```

```
hello
yo
I'm a lumberjack, and I'm okay
I sleep all night and I work all day.
7
```

[208]:
```
def greet(lang):
    if lang =='es':
        print('hola')
    elif lang == 'fr':
        print('Bonjour')
    else:
        print('hello')
greet('en')
#hello
greet('es')
#Hola
```

[176]:
```
big=max('hello world')
print(big)
tiny=min('hello world')
print(tiny)
```

```
w
```

[180]:
```
print(float(99)/100)
i=42
type(i)
```

```
0.99
```

[180]:
```
int
```

[202]:
```
i=print(1+2*float(3)/4-5)
```

```
-2.5
```

[204]:
```
x=5
print('hello')
def print_lyrics():
    print("I'm a lumberjack, and I'm okay")
    print('I sleep all night and I work all day.')
print('yo')
print_lyrics()
x=x+2
print(x)
```

```
hello
```

python-practice

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Trusted

Code

JupyterLab

Python 3 (ipykernel)

[1]:
```
#enter hours=45
#enter rate=10
x= input('enteter hours:')
y = input('enter rate:')
# print("hello world")
#calculate pay
x=float(x)
if x > 40:
    extra_time = float(x)-40
else:
    extra_time=0
extra_pay=0.5*float(y)*extra_time
pay=float(x)*float(y)+extra_pay
print('pay:',pay)
```

```
enteter hours: 45
enter rate: 10
pay: 475.0
```

[3]:
```
print('a')
```

```
a
```

[ ]:
```
def thing():
    print('hello')
    print('fun')
thing()
print('Zip')
thing()
```

```
    print('there')
except:
    istr=-1
print('done',istr)
```

```
hello
done -1
```

[150]:
```
rawstr=input('enter a number:')
try:
   ival=int(rawstr)
except:
   ival=-1
#print('rawstr',ival)
if ival > 0:
    print('nice work')
else:
    print('not a number')
```

```
enter a number: ty
not a number
```

[152]:
```
x=45
rate=10
y=x*rate
print(y)
```

```
450
```

[ ]:
```
#enter hours=45
#enter rate=10
```

python-practice

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Code JupyterLab Python 3 (ipykernel)

[120]:
```
#cat notry.py
astr = 'hello bob'
try:
  istr= int(astr)
except:
  istr=-1
print('First',istr)
astr ='123'
try:
  istr =int(astr)
except:
  istr=-1
print('second',istr)
```

```
First -1
second 123
```

[130]:
```
astr='bob'
try:
    print('hello')
    istr=int(astr)
    print('there')
except:
    istr=-1
print('done',istr)
```

python-practice

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Code JupyterLab Python 3 (ipykernel)

[110]:
```
#multi ways
x =0
if x<2:
    print('smaller')
elif x <10:
    print('medium')
elif x<20:
    print('big')
elif x<40:
    print('large')
elif x<100:
    print('huge')
else:
    print('ginormous')
print('all done')
```

```
smaller
all done
```

[112]:
```
if x<2:
    print('below 2')
elif x<20:
    print('below 20')
elif x<10:
    print('below 10')
else:
    print('something else')
```

```
below 2
```

python-practice

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Code JupyterLab Python 3 (ipykernel)

```
done with 2
0
done with i 0
1
done with i 1
2
done with i 2
3
bigger than 2
done with i 3
4
bigger than 2
done with i 4
all done
```

[96]:

```
x=42
if x >1:
    print('more than one')
    if x<100:
        print('less than 100')
print('all done')
```

```
more than one
less than 100
all done
```

[98]:

```
x=4
if x> 2:
    print('bigger')
else:
    print('smaller')
print('all done')
```

python-practice

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Code JupyterLab Python 3 (ipykernel)

```
print('afterwards 5')
print('before 6')
if x==6:
    print('is 6')
    print('is still 6')
    print('third 6')
print('afterwards 6')
```

```
before 5
is 5
is still 5
third 5
afterwards 5
before 6
afterwards 6
```

[93]:

```
x=5
if x>2:
    print('bigger than 2')
    print('still bigger')
print('done with 2')
for i in range(5):
    print (i)
    if i>2:
        print('bigger than 2')
    print('done with i',i)
print('all done')
```

```
bigger than 2
still bigger
done with 2
```

python-practice

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Code JupyterLab Python 3 (ipykernel)

```
smaller
finish
```

[84]:
```
x=5
if x==5:
    print('equals 5')
if x>4:
    print('greater than 4')
if x>=5:
    print('greater than or equal 5')
if x<6:
    print('less than 6')
if x<=5:
    print('less than or equal to 5')
if x!=6:
    print('not equal to 6')
```

```
equals 5
greater than 4
greater than or equal 5
less than 6
less than or equal to 5
not equal to 6
```

[89]:
```
x=5
print('before 5')
if x ==5:
   print('is 5')
   print('is still 5')
   print('third 5')
```

[51]:
```
#varible name
x=20
#expression evaluation
x=30+x
#all done
print('now answer is',x)#print statement
```

```
now answer is 50
```

[77]:
```
x=input('hours:')
y=input('rate')
pay=int(x)*float(y)
print('pay is:',pay)
#y=input('rate:')
#pay=x*y
```

```
hours: 35
rate 2.75
pay is: 96.25
```

[82]:
```
x=5
if x<10:
    print('smaller')
if x>20:
    print('bigger')
print('finish')
```

```
smaller
```

[31]:
```
print(10/2)
```

```
5.0
```

[39]:
```
sval='123'
#type(sval)
#print(sval+1)
ival=int(sval)
type(ival)
print(ival+1)
#nsv='hello bob'
#niv=int(nsv)
```

```
124
```

[41]:
```
nam=input('who are you?')
print('welcome',nam)
```

```
who are you? eman
welcome eman
```

[47]:
```
inp=input('europe floor?')
usf=int(inp)+1
print('us floor',usf)
```

```
europe floor? 3
us floor 4
```

[51]:
```
#varible name
```

[13]:
```
x=1+2*3-4/5**6
print(x)
```

```
6.999744
```

[15]:
```
x=1+2**3/4*5
print(x)
```

```
11.0
```

[17]:
```
ddd=1+4
print(ddd)
eee='hello'+'there'
print(eee)
```

```
5
hellothere
```

[23]:
```
type(1)
type('hello')
```

[23]:
```
str
```

[29]:
```
print(float(99)+100)
i=42
type(i)
f=float(i)
print(f)
```

```
199.0
42.0
```

[3]:
```
print(123)
print(98.6)
print('hello world')
```

```
123
98.6
hello world
```

[7]:
```
x1q3z9ocd = 35.0
x1q3z9afd = 12.50
x1q3z9afd = x1q3z9ocd * x1q3z9afd
print(x1q3z9afd)
print(x1q3z9ocd)
```

```
437.5
35.0
```

[9]:
```
xx=2
xx=xx+2
print(xx)
yy=440*12
print(yy)
jj=23
kk=jj%5
print(kk)
```

```
4
5280
```