```
[13]: x*1+2*3·4/5**6
print(x)
6.99744

[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
```

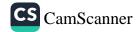


```
[51]: #varible name
       x=28
      #expression evaluation
      x=30+x
      #all done
      print('now answer is',x)#print statement
      now answer is 50
[77]: x=input('hours:')
      y=input('rate')
      pay=int(x)*float(y)
       print('pay is:',pay)
       #y=input('rate:')
       #pay=x*y
       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
      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

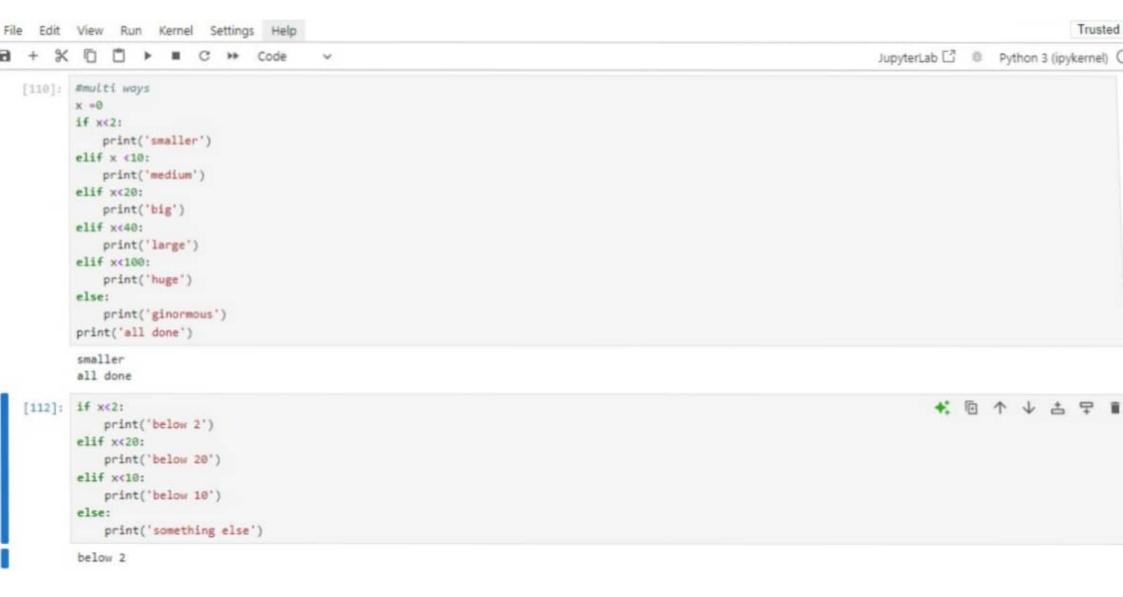


```
print('afterwards 5')
       print('before 6')
      if x==6:
          print('is 6')
          print('is still 6')
          print('third 6')
       print('afterwards 6')
       before 5
       is 5
       is still 5
       third 5
       afterwards 5
       before 6
       afterwards 6
[93]: x=5
      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 i 0
       done with i 1
      done with 1 2
      bigger than 2
      done with i 3
      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
```





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

First -1
   second 123
```



```
practice of
        except:
           istr=-1
        print('done',istr)
        hello
        done -1
[150]: rawstr=input('enter a number:')
          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
```

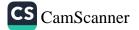


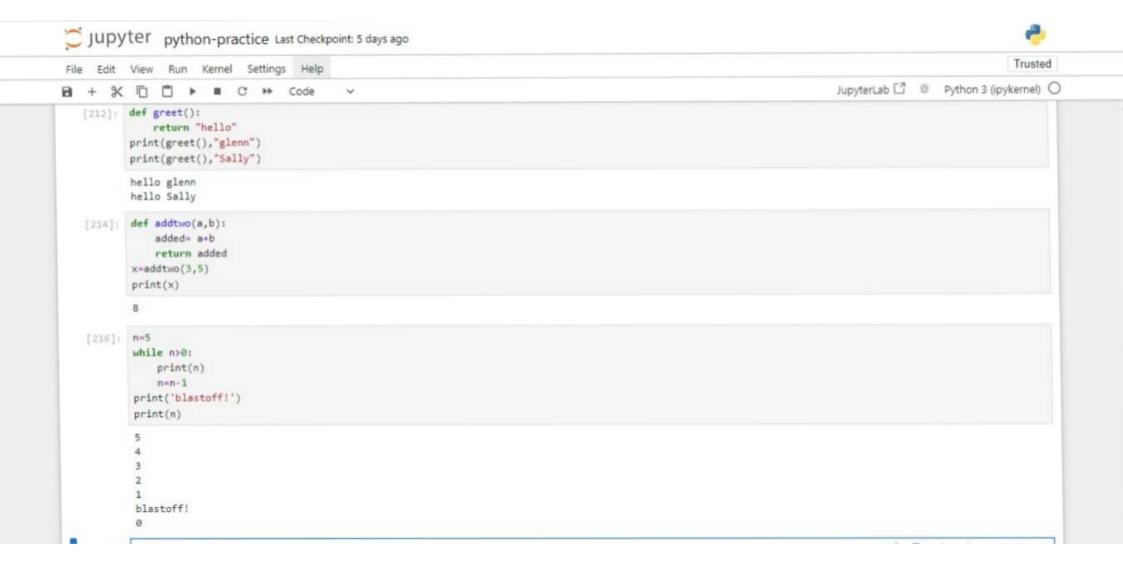
Jupyter python-practice Last Checkpoint: 5 days ago Trusted File Edit View Run Kernel Settings Help + % □ □ > ■ C >> Code JupyterLab [Python 3 (ipykernel) O [176]: big=max('hello world') print(big) tiny=min('hello world') print(tiny) [188]: print(float(99)/100) i=42 type(i) 0.99 [180]: int [202]: i=print(1+2*float(3)/4-5) -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)



```
-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
        VO
        I'm a lumberjack, and I'm okay
        I sleep all night and I work all day.
[208]: def greet(lang):
           if lang == 'es':
               print('hola')
           elif lang == 'fr':
               print('Bonjour')
           else:
               print('hello')
      greet('en')
       #hello
      greet('es')
```







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