```
In [16]:
#Min
book = 80
pen = 15
pencil = 5
beg = 100
pencilcase = 20
min(book, pen, pencil, beg, pencilcase)
5
In [15]:
max(book, pen, pencil, beg, pencilcase)
Out[15]:
100
In [24]:
#sorting
school_list = [12, 50, 60, 30, 5, 70, 100]
sortedschool_list = sorted(school_list)
sortedschool_list
Out[24]:
[5, 12, 30, 50, 60, 70, 100]
In [26]:
#reverse sorting
reversedschool_list = sorted(school_list, reverse=True)
reversedschool_list
Out[26]:
[100, 70, 60, 50, 30, 12, 5]
In [27]:
#absolute
abs(-10)
Out[27]:
10
In [28]:
abs(-17*14)
Out[28]:
238
In [30]:
abs(2+4j)
Out[30]:
4.47213595499958
```

```
In [38]:
class nums:
 x = 20
  y = 2
  z = -5
delattr(nums, 'z')
rno = nums()
print('x = ', rno.x)
print('y = ',rno.y)
x = 20
y = 2
In [51]:
int_val = 10
string_val = 'Python is for everyone'
float val = 15.31
print(hash(int val))
print(hash(string_val))
print(hash(float_val))
9051883745176546434
714811332856246287
In [53]:
tuple_val = (1, 2, 3, 4, 5)
# list are mutable
list_val = [1, 2, 3, 4, 5]
print (hash(tuple_val))
#list is unhashable
8315274433719620810
In [66]:
#set
# empty set
print(set())
# from string
print(set('Python is for everyone'))
# from tuple
print(set(('v', 'o', 'w', 'e', 'l', 'a', 'e', 'i', 'o', 'u')))
# from list
print(set(['v', 'o', 'w', 'e', 'l', 'a', 'e', 'i', 'o', 'u']))
# from range
print(set(range(8)))
set()
{'e', 'i', 'P', ' ', 'f', 'r', 'n', 'o', 'h', 'v', 'y', 't', 's'}
{'e', 'i', 'l', 'a', 'o', 'v', 'u', 'w'}
{'e', 'i', 'l', 'a', 'o', 'v', 'u', 'w'}
{0, 1, 2, 3, 4, 5, 6, 7}
In [71]:
```

```
fine all() function returns true if all items in an iterable are true, otherwise it returns raise.
list = [0, 1, 1, 1]
x = all(list)
x

Out[71]:
False

In [74]:
set = {0, 1, 0, 1}
x = all(set)
x

Out[74]:
False

In []:
```