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| **Assignment Operator overloading** |
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| **Write a program to overload the following Assignment Operators  -=  +=  \*=  /=  //=  %=  \*\*=** |

**-= operator:**

class **c**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_isub\_\_**(*self*,other):

*self*.x-=other.x

*self*.y-=other.y

print(*"x="*, *self*.x,*" y="*,*self*.y)

o=c(100,10)

o1=c(20,30)

o-=o1



**+= operator:**

class **P**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_iadd\_\_**(*self*,other):

*self*.x+=other.x

*self*.y+=other.y

print( “x=”,*self*.x,”y=”,*self*.y)

o=P(100,10)

o1=P(23,3)

o+=o1

x=123 y= 13

**\*= operator:**

class **C**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_imul\_\_**(*self*,other):

*self*.x\*=other.x

*self*.y\*=other.y

print(*"x="*, *self*.x,*"y="*,*self*.y)

o=C(100,10)

o1=C(20,30)

o\*=o1



/=operator:

class **C**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_itruediv\_\_**(*self*,other):

*self*.x/=other.x

*self*.y/=other.y

print(*"x="*, *self*.x,*"y="*,*self*.y)

o=C(100,10)

o1=C(20,30)

o/=o1



**//= operator:**

class **P**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_ifloordiv\_\_**(*self*,other):

*self*.x//=other.x

*self*.y//=other.y

print(*"x="*, *self*.x,*"y="*,*self*.y)

o=P(100,10)

o1=P(23,3)

o//=o1



**%= operator:**

class **P**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_imod\_\_**(*self*,other):

*self*.x%=other.x

*self*.y%=other.y

print(*"x="*, *self*.x,*"y="*,*self*.y)

o=P(100,10)

o1=P(23,3)

o%=o1



**\*\*= operator:**

class **P**:

def **\_\_init\_\_**(*self*,a,b):

*self*.x=a

*self*.y=b

def **\_\_ipow\_\_**(*self*,other):

*self*.x\*\*=other.x

*self*.y\*\*=other.y

print(*"x="*, *self*.x,*"y="*,*self*.y)

o=P(100,10)

o1=P(5,3)

o\*\*=o1

