In [2]:
```
class Line:

    def __init__(self,coor1,coor2):
        self.coor1 = coor1
        self.coor2 = coor2

    def distance(self):
        x1,y1 = self.coor1
        x2,y2 = self.coor2
        return ((x2-x1) ** 2 + (y2-y1)**2)**0.5

    def slope(self):
        x1,y1 = self.coor1
        x2,y2 = self.coor2
        return (y2-y1) / (x2 - x1)
```

In [3]:
```
coor1 = (3,2)
coor2 = (8,10)

li = Line(coor1,coor2)
```

In [4]:
```
li.distance()
```

Out[4]: 9.433981132056603

In [5]:
```
li.slope()
```

Out[5]: 1.6

In [6]:
```
class Cylinder:

    def __init__(self,height=1,radius=1):
        self.height = height
        self.radius = radius


    def volume(self):
        return (self.radius * self.radius * 3.14 * self.height)

    def surface_area(self):
        return (self.radius * 3.14 * 2 * (self.height + self.radius))
```

In [7]:
```
c = Cylinder(2,3)
```

In [8]:
```
c.volume()
```

Out[8]: 56.52

In [9]:
```
1 c.surface_area()
```

Out[9]: 94.2

In [ ]:
```
1
```

In [ ]:
```
1
```

In [62]:
```
1  class Account:
2      def __init__(self,owner,balance=0):
3          self.owner = owner
4          self.balance = balance
5      def __str__(self):
6          return (f"Account owner : {self.owner } \nAccount balance: {self.bal
7      def deposit(self,deposit_amount):
8          self.balance += deposit_amount
9          print("deposit Accepted")
10     def withdraw(self,withdrawl_amount):
11         if self.balance >= withdrawl_amount :
12             self.balance -= withdrawl_amount
13             print("withdrawl accepted")
14         else:
15             print("Not Sufficient funds")
```

In [63]:
```
1 acct1 = Account('Jose',100)
```

In [64]:
```
1 print(acct1)
```

```
Account owner : Jose
Account balance: 100
```

In [65]:
```
1 acct1.owner
```

Out[65]: 'Jose'

acct1.balance

In [66]:
```
1 acct1.balance
```

Out[66]: 100

In [67]:
```
1 acct1.deposit(50)
```

```
deposit Accepted
```

In [70]:
```
1 acct1.withdraw(75)
```

```
withdrawl accepted
```

In [71]:
```
1 acct1.withdraw(500)
```

```
Not Sufficient funds
```

In [ ]:
```
1
```