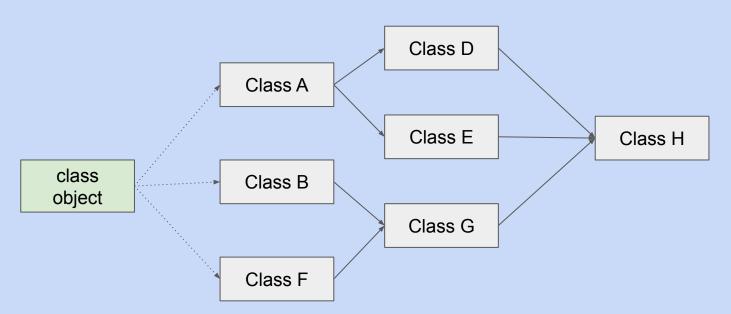
Python training - lab 13

OOP - multiple inheritance



OOP - multiple inheritance

```
class A:
    def generic(self):
         print("AAAA")
class B:
    def generic(self):
         print("BBBB")
class C(A, B):
    def generic2(self):
         B.generic(self)
c = C()
c.generic()
c.generic2()
print(C.mro()) # Method Resolution Order(MRO)
```

OOP - composition

```
class A:
    pass
class B:
    pass
class C:
    def __init__(self, atr1, atr2):
       self.atr1 = atr1
       self.atr2 = atr2
a = A()
b = B()
c = C(a, b)
```

OOP - __repr__ and __str__

```
class A:
   def __init__(self, x, y):
      self.x = x
      self.y = y
   def __repr__(self)
      return f'A({self.x}, {self.y})'
   def str (self)
      return f'This is object A({self.x}, {self.y})'
a = A(4, 5)
print(a)
```

OOP - destructor

```
class A:
   def __init__(self, x, y):
       self.x = x
       self.y = y
   def __del__(self)
       11 11 11
       This is the destructor.
       Gets called when the objects is destroyed
       11 11 11
       pass
a = A(4, 7)
a = 1234
```

OOP - operator overloading

```
class A:
   def __init__(self, x):
      self.x = x
   def __lt__(self, other):
      return self.x < other.x
a1 = A(4)
a2 = A(7)
if a1 < a2: # normally error here
   print('a1 lower than a2')
else:
   print('a2 lower than a1')
```