```
class Empty: pass
@magic(Empty)
class Person:
  def __init__(self, name, gross, netp):
    self.gross_salary = gross
    self.netpercentage = netp
    self.name = name
 def who(self): return self.name
 def salary(self): return self.gross_salary*self.netpercentage/12
@magic(Empty)
class Exam:
  def __init__(self, title, n, ne):
    self.title = title
    self.students = n
    self.exams = ne
 def todo(self):
    return "still {} students should pass the {} exam".format(
                            self.students-self.exams, self.title)
if __name__ == "__main__":
 m = Empty()
 x = Exam("PA", 100, 15)
 y = Exam("TSP", 50, 45)
 p = Person("Bob", 100000, .6)
 try:
    print("m salary :- ",m.salary())
 except Exception as e: print("*** {0}: {1}".format(type(e).__name__, e))
 print("p salary :- ", p.salary())
 print("m salary :- ", m.salary())
 try:
   print("m todo :- ", m.todo())
 except Exception as e: print("*** {0}: {1}".format(type(e).__name__, e))
 print("x todo :- ", x.todo())
 print("m todo :- ", m.todo())
  p.netpercentage=.45
 print("m salary :- ", m.salary())
 print("y todo :- ", y.todo())
 print("m todo :- ", m.todo())
 print("m students :- ",m.students)
 print("x todo :- ", x.todo())
 print("m students :- ",m.students)
 try:
    print("m who :- ",m.who)
 except Exception as e: print("*** {0}: {1}".format(type(e).__name__, e))
```