Текст программы main.py:

```
from operator import itemgetter
def one to many(preps, courses):
                    for p in preps
def many_to_many(preps, courses_preps):
    many_to_many_temp = [(c.name, cp.course_id, cp.prep_id)
             c preps = list(filter(lambda i: i[2] == c.name, one to many))
        if len(c preps) > 0:
            c_sal = [sal for _, sal, _ in c_preps]
sr_sal = round(sum(c_sal) / len(c_preps), 2)
             answer 2.append((c.name, sr sal))
def solution3(many to many, preps):
    for p in preps:
             only cource = [x for , , x in p courses]
```

Текст программы tests.py:

Результат в случае успешного тестирования:

```
Ran 3 tests in 0.002s
```

Пример неудачного тестирования:

```
Ran 3 tests in 0.004s

FAILED (failures=1)
Launching unittests with arguments python -m unittest /Users/zirox/PycharmProjects/pythonProject/tests.py in /Users/zirox/PycharmProjects/pythonProject

[('ACONY', S.S), ('Kypc Математический анализ', 105.0), ('Kypc Физика', 120.0)] != [('ACONY', S.S), ('Kypc Математический анализ', 105.0), ('Kypc Физика', 120.0)]

Expected :[('ACONY', S.S), ('Kypc Математический анализ', 105.0), ('Kypc Физика', 120.0)]

Actual :[('ACONY', S.S), ('Kypc Математический анализ', 105.0), ('Kypc Физика', 120.0)]

**Click to see difference**

Traceback (most recent call last):

File "/Users/zirox/PycharmProjects/pythonProject/tests.py", line 38, in testSolution2

**setf-assertEqual(res,
AssertionFror: Lists differ: [('ACONY', S.S), ('Kypc Математический анализ', 105.0), ('Курс Физика', 120.0)] != [('ACON', S.S), ('Куpc Математический анализ', 105.0), ('Куpc Физика', 120.0)]

**C'ACONY', S.S)

-[('ACONY', S.S), ('Куpc Математический анализ', 105.0), ('Куpc Физика', 120.0)]

**Process finished with exit code 1
```