Лабораторная работа №1

Задачи.

Ссылка на Replite: https://replit.com/@letablohina2017/Practice

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Задание 1

```
C:\Users\79112>pip
  pip <command> [options]
Commands:
  install
                                      Install packages.
                                     Download packages.
Uninstall packages.
  download
  uninstall
                                      Output installed packages in requirements format.
  freeze
  inspect
                                      Inspect the python environment.
  list
                                      List installed packages.
  show
                                      Show information about installed packages.
  check
                                     Verify installed packages have compatible dependencies.
  config
                                     Manage local and global configuration.
  search
                                      Search PyPI for packages.
                                     Inspect and manage pip's wheel cache.
Inspect information available from package indexes.
  cache
  index
                                     Build wheels from your requirements.

Compute hashes of package archives.

A helper command used for command completion.

Show information useful for debugging.
  wheel
  hash
  completion
  debug
                                     Show help for commands.
  help
General Options:
                                      Show help.
   -h, --help
  --debug
                                     Let unhandled exceptions propagate outside the main subroutine, instead of logging them
```

Для одновременного выполнений программ в Replite был сделаны 2 файлы и далее они импортированы в главный файл. Поэтому при отсутствии ошибок в работе калькулятора (1 задание), программа выводит сразу требования ввести число для 2 программы (2 задание)

Задание 3.1

```
main.py 🔷 task1.py × 🔷 task2.py
task1.py > ...
                                                                                                         □ Form
     """Calculates the result of the calculator
      Arguments:
         a (int, float): The first number.
         b (int, float): The second number.
         operation (str): The operation to be performed.
             - 'add' for addition,
             - 'sub' for subtraction,
             - 'div' for division,
             - 'mult' for multiplication.
         Returns:
         int, float: The result of the operation.
         Exceptions:
         ValueError: If the division operation and the second number is zero.
     def calculate(a, b, operation):
           if operation == 'add':
            return a + b
           if operation == 'sub':
           return a - b
           if operation == 'div':
            if b == 0:
                raise ValueError("Division is not possible")
             return a / b
          if operation == 'mult':
            return a * b
     def test_add():
         assert calculate(1, 2, 'add') == 3
     def test_sub():
         assert calculate(8, 6, 'sub') == 2
     def test_div():
         assert calculate(64, 8, 'div') == 8
     def test_mult():
         assert calculate(6, 9, 'mult') == 54
    test_add()
    test_sub()
     test_mult()
 42
     test_div()
```

Задание 3.2

```
| making | m
```