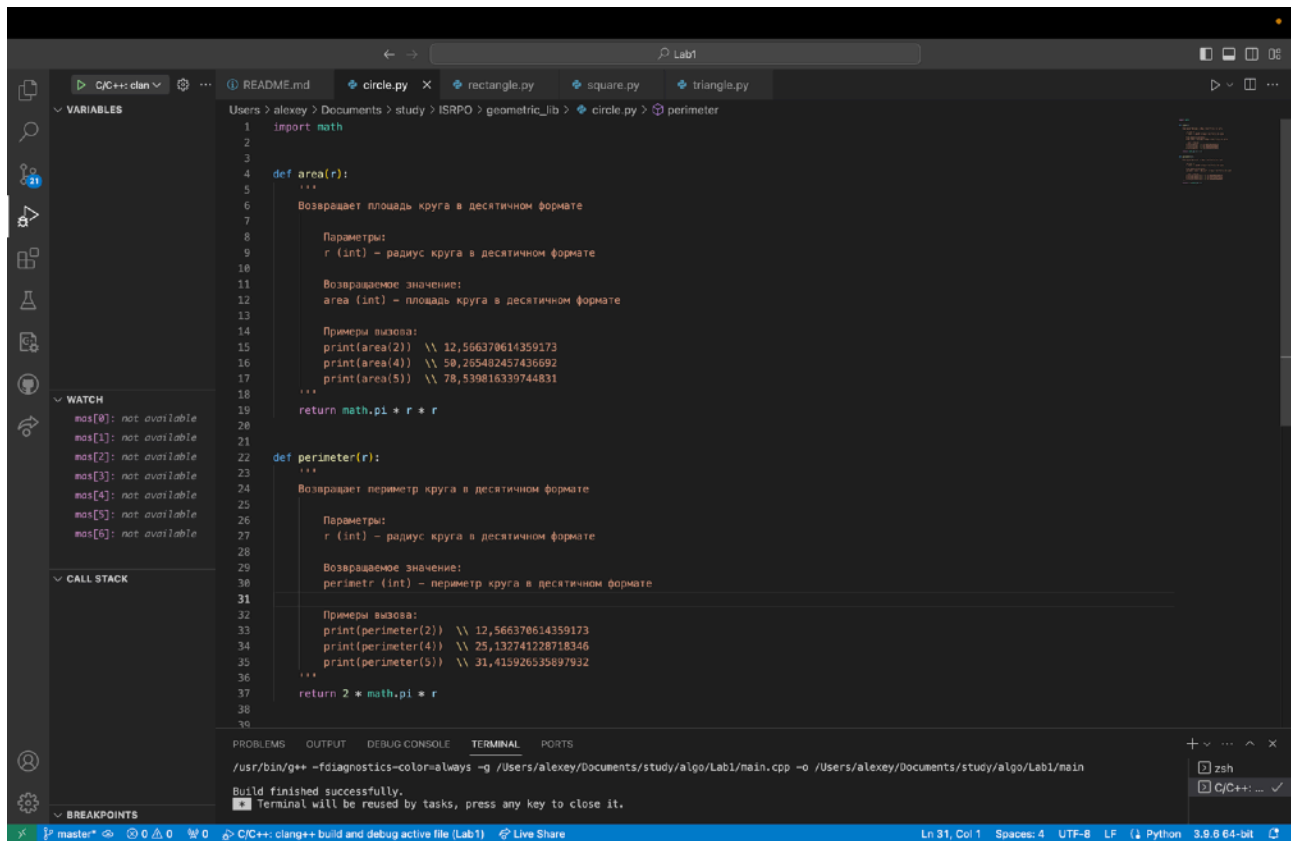
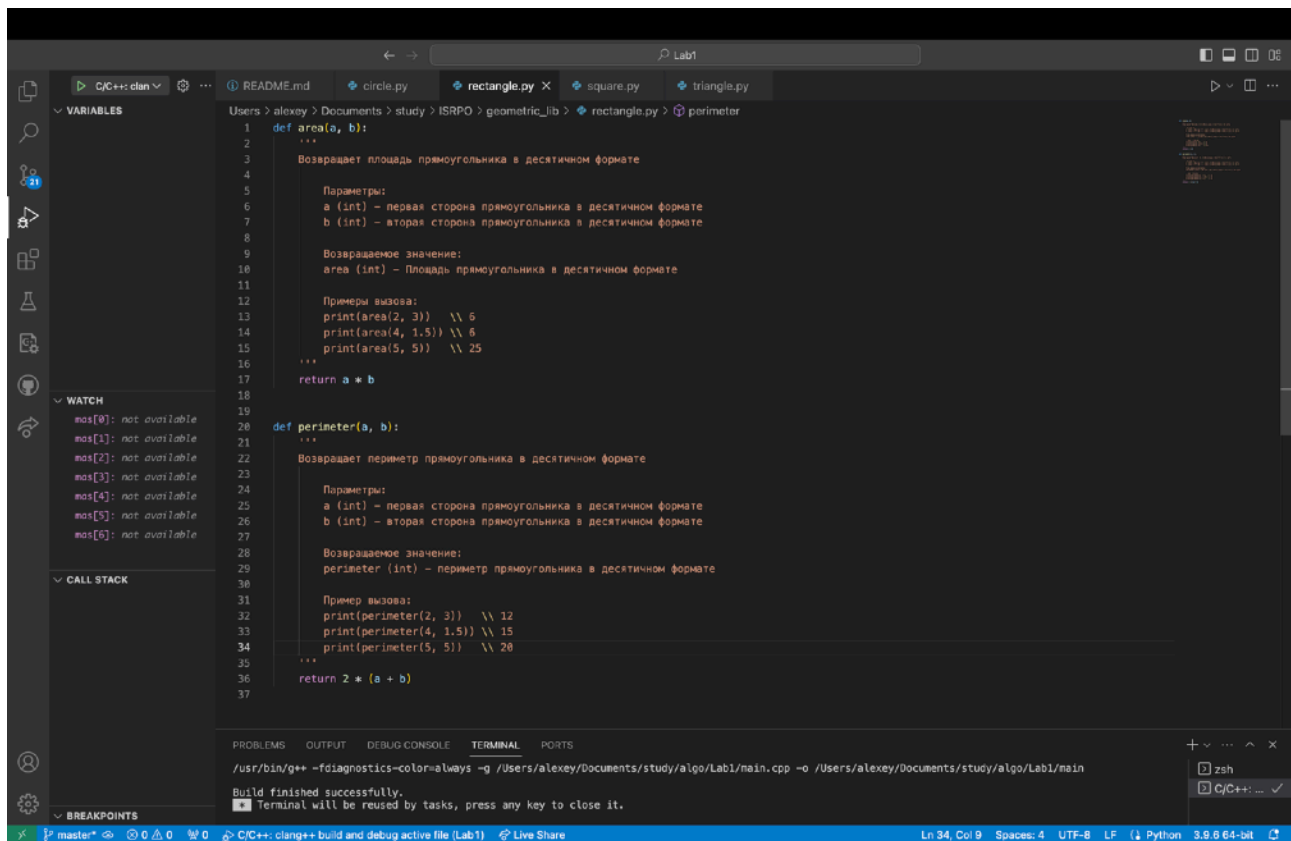


## 1. Добавляем комментарии к коду в файл circle.py



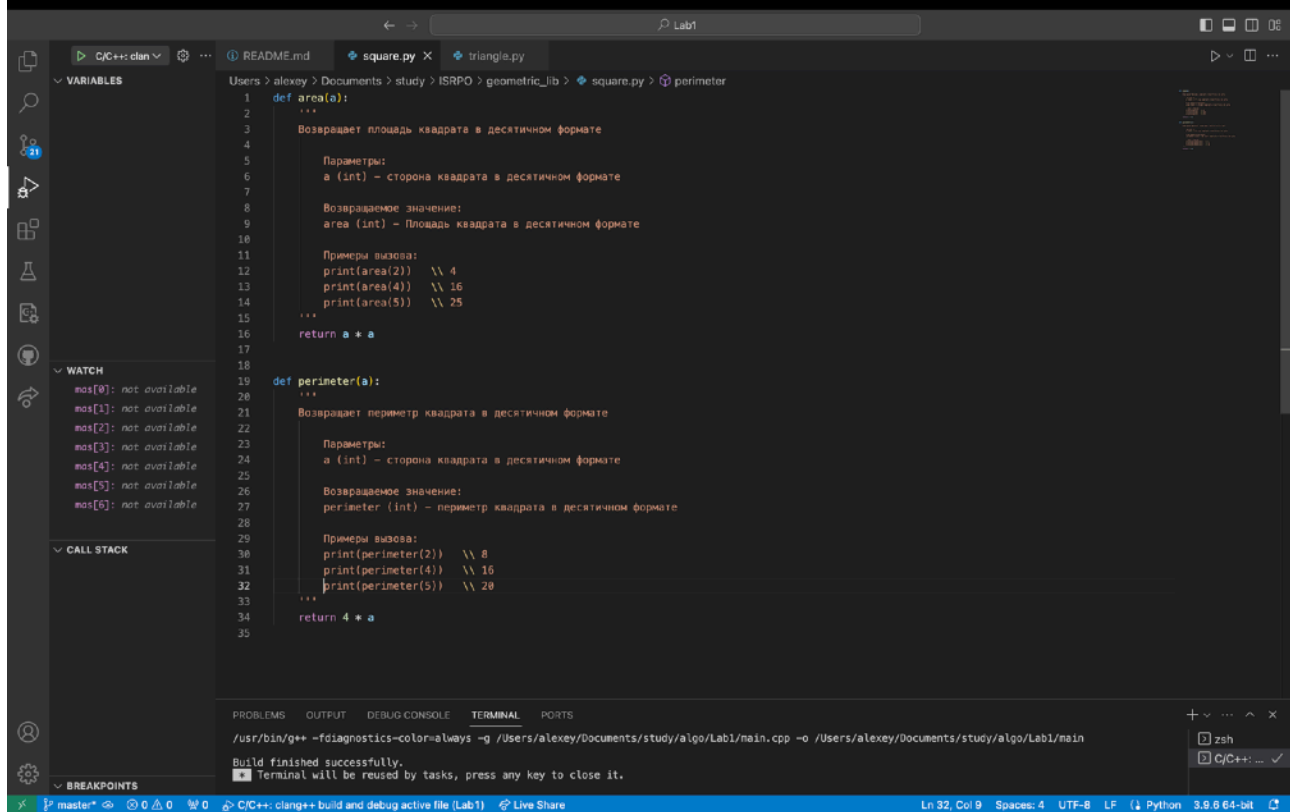
```
1 import math
2
3
4 def area(r):
5     """
6     Возвращает площадь круга в десятичном формате
7
8     Параметры:
9     r (int) - радиус круга в десятичном формате
10
11     Возвращаемое значение:
12     area (int) - площадь круга в десятичном формате
13
14     Примеры вызова:
15     print(area(2)) \\ 12,566370614359173
16     print(area(4)) \\ 50,265482457436692
17     print(area(5)) \\ 78,539816339744831
18     """
19     return math.pi * r * r
20
21
22 def perimeter(r):
23     """
24     Возвращает периметр круга в десятичном формате
25
26     Параметры:
27     r (int) - радиус круга в десятичном формате
28
29     Возвращаемое значение:
30     perimeter (int) - периметр круга в десятичном формате
31
32     Примеры вызова:
33     print(perimeter(2)) \\ 12,566370614359173
34     print(perimeter(4)) \\ 25,132741228718346
35     print(perimeter(5)) \\ 31,415926535897932
36     """
37     return 2 * math.pi * r
38
39
```

## 2. Добавляем комментарии к коду в файл rectangle.py

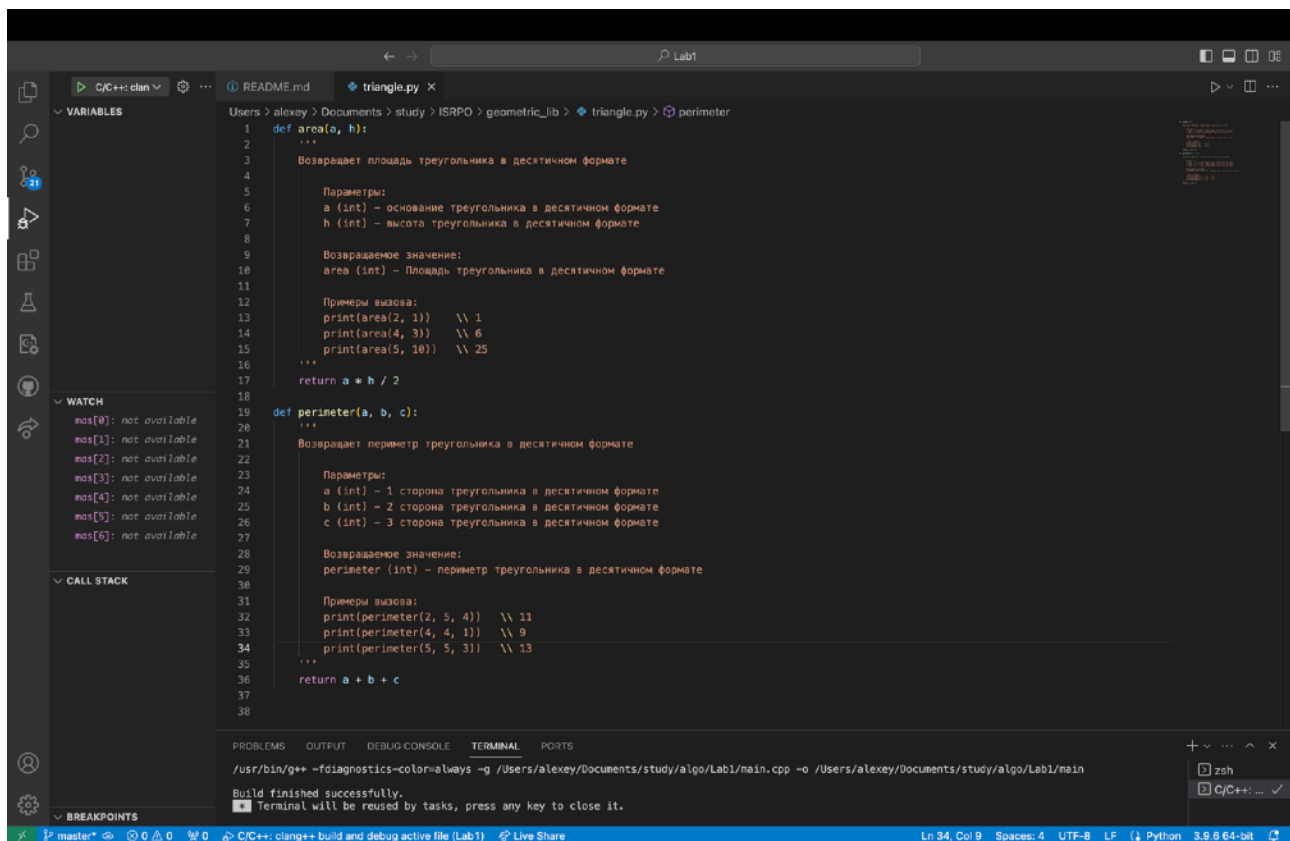


```
1 def area(a, b):
2     """
3     Возвращает площадь прямоугольника в десятичном формате
4
5     Параметры:
6     a (int) - первая сторона прямоугольника в десятичном формате
7     b (int) - вторая сторона прямоугольника в десятичном формате
8
9     Возвращаемое значение:
10    area (int) - площадь прямоугольника в десятичном формате
11
12    Примеры вызова:
13    print(area(2, 3)) \\ 6
14    print(area(4, 1.5)) \\ 6
15    print(area(5, 5)) \\ 25
16    """
17    return a * b
18
19
20 def perimeter(a, b):
21     """
22     Возвращает периметр прямоугольника в десятичном формате
23
24     Параметры:
25     a (int) - первая сторона прямоугольника в десятичном формате
26     b (int) - вторая сторона прямоугольника в десятичном формате
27
28     Возвращаемое значение:
29     perimeter (int) - периметр прямоугольника в десятичном формате
30
31     Пример вызова:
32     print(perimeter(2, 3)) \\ 12
33     print(perimeter(4, 1.5)) \\ 15
34     print(perimeter(5, 5)) \\ 20
35     """
36    return 2 * (a + b)
37
```

## 3. Добавляем комментарии к коду в файл square.py



#### 4. Добавляем комментарии к коду в файл triangle.py



#### 5. Добавляем все изменённые файлы в гит

```
99% 7% 9.3 GB ~documents/study/ISRPQ/geometric_lib
* You will not see this error message again.
* Zsh will start quickly but prompt will jump down after initialization.

- Disable instant prompt either by running p10k configure or by manually
  defining the following parameter:

  typeset -g POWERLEVEL9K_INSTANT_PROMPT=off

* You will not see this error message again.
* Zsh will start slowly.

- Do nothing.

* You will see this error message every time you start zsh.
* Zsh will start quickly but prompt will jump down after initialization.

For details, see:
https://github.com/romkatv/powerlevel10k/blob/master/README.md#instant-prompt

-- console output produced during zsh initialization follows --

/Users/alexey/.zshrc:109: command not found: "source
/Users/alexey/.zshrc:110: command not found: "source
/Users/alexey/.zshrc:111: command not found: "source
> cd documents
> cd study
> cd ISRPQ
> cd geometric_lib
> git add *.py

Apple > ~/documents/s/I/geometric_lib on main +4 ?1 at 10:32:55
```

6. Делаем коммит о добавлении комментариев в файл

```
99% 4% 9.5 GB ~documents/study/ISRPQ/geometric_lib
- Disable instant prompt either by running p10k configure or by manually
  defining the following parameter:

  typeset -g POWERLEVEL9K_INSTANT_PROMPT=off

* You will not see this error message again.
* Zsh will start slowly.

- Do nothing.

* You will see this error message every time you start zsh.
* Zsh will start quickly but prompt will jump down after initialization.

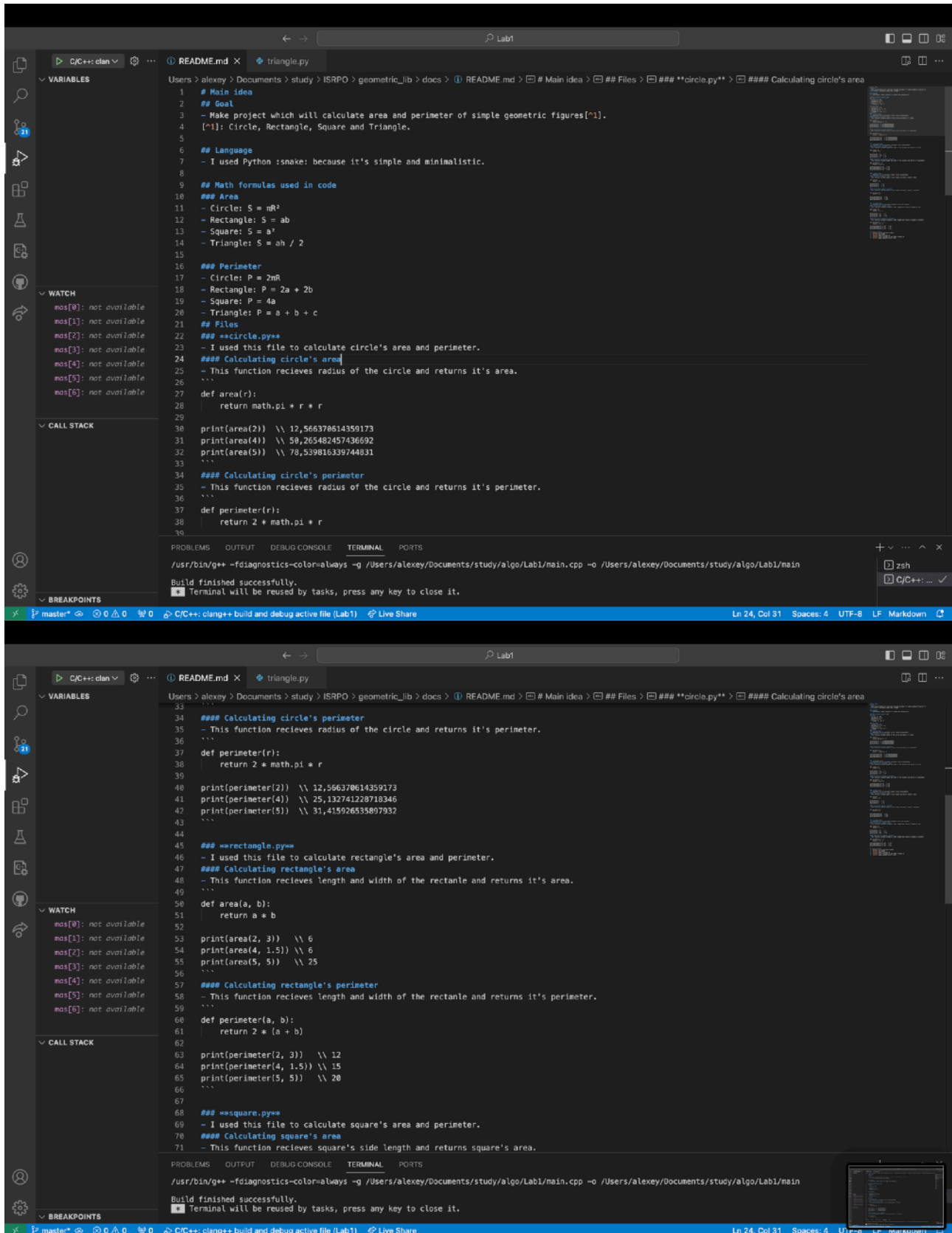
For details, see:
https://github.com/romkatv/powerlevel10k/blob/master/README.md#instant-prompt

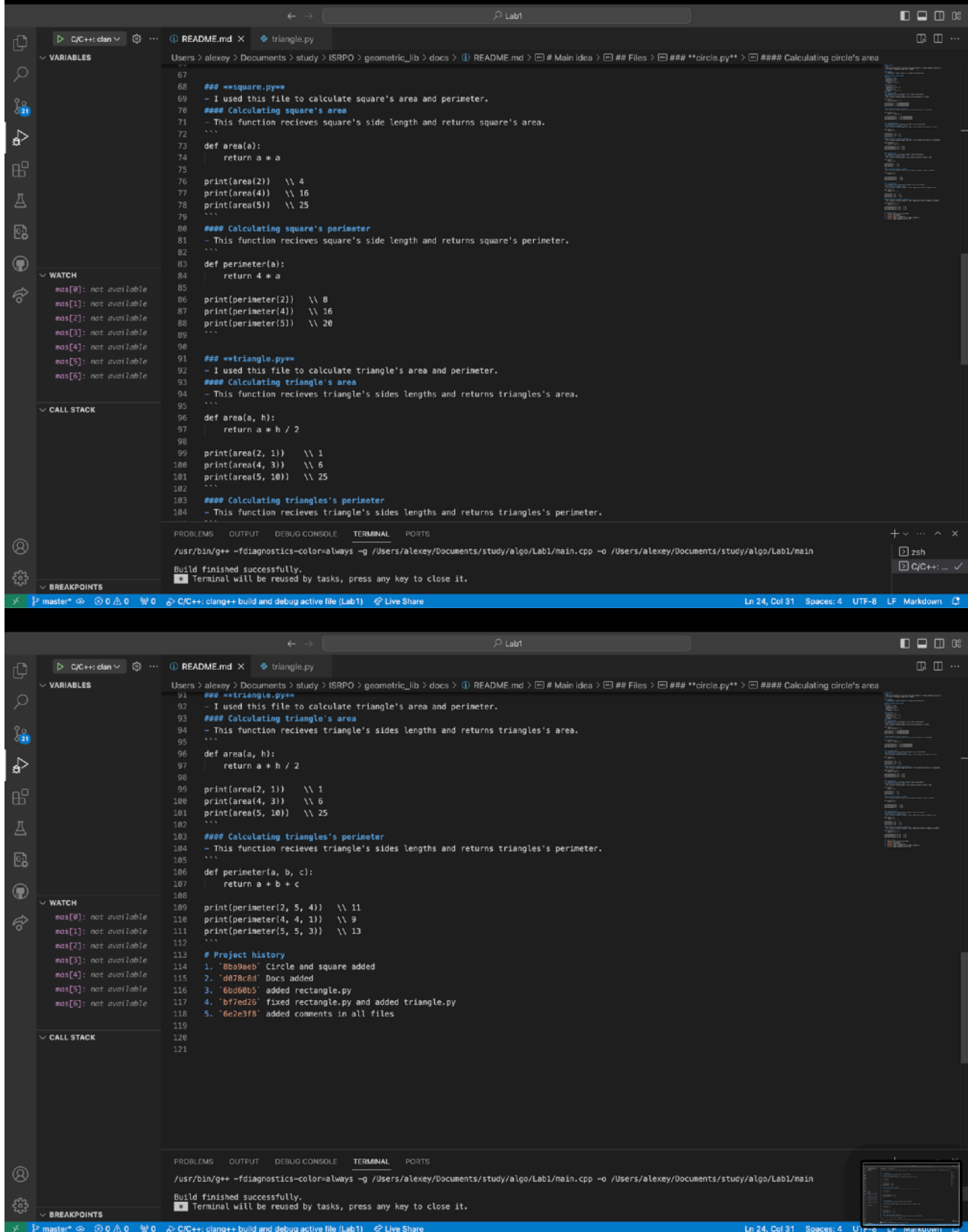
-- console output produced during zsh initialization follows --

/Users/alexey/.zshrc:109: command not found: "source
/Users/alexey/.zshrc:110: command not found: "source
/Users/alexey/.zshrc:111: command not found: "source
> cd documents
> cd study
> cd ISRPQ
> cd geometric_lib
> git add *.py
> git commit -m "added examples in comments"
[main ae46853] added examples in comments
4 files changed, 46 insertions(+), 6 deletions(-)

Apple > ~/documents/s/I/geometric_lib on main +1 ?1 at 10:34:25
```

## 7. Пишем документацию в markdown файле





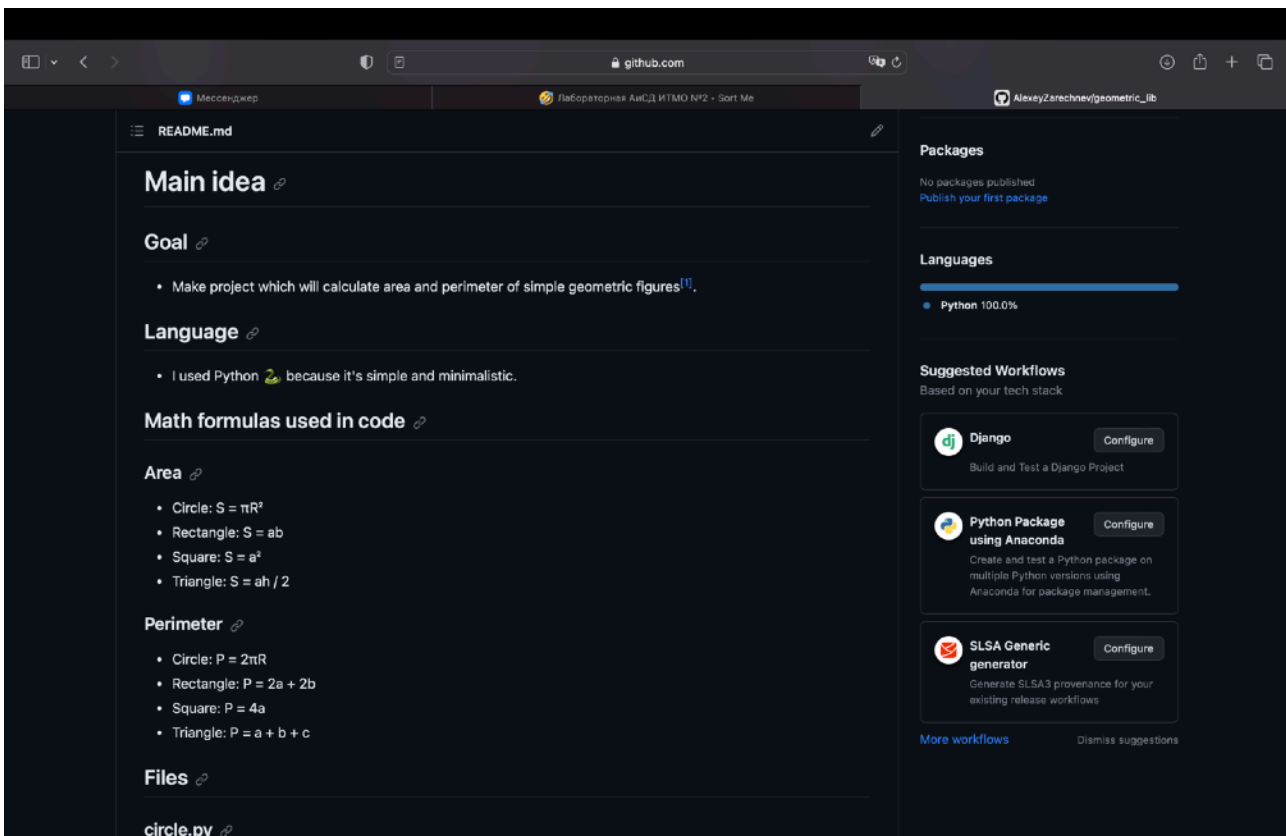
8. Делаем коммит об изменённом README.md

```
at base.Log.silentScope(Unknown Source)
at base.TestCounter.testV(Unknown Source)
at base.TestCounter.test(Unknown Source)
at base.Runner.testEquals(Unknown Source)
at reverse.ReverseTester$Checker.test(Unknown Source)
at reverse.ReverseTester$Checker.test(Unknown Source)
at reverse.ReverseTester$Checker.test(Unknown Source)
at reverse.ReverseTester.run(Unknown Source)
at reverse.ReverseTester.lambda$variant$2(Unknown Source)
at base.Selector.lambda$test$2(Unknown Source)
at base.Log.lambda$action$0(Unknown Source)
at base.Log.silentScope(Unknown Source)
at base.Log.scope(Unknown Source)
at base.Log.scope(Unknown Source)
at base.Selector.lambda$test$3(Unknown Source)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at base.Selector.test(Unknown Source)
at base.Selector.main(Unknown Source)
at reverse.ReverseTest.main(Unknown Source)

> cd ..
> cd ..
> cd geometric_lib
> git push
Everything up-to-date
> git add *.py
> git add README.md
fatal: спецификатор пути «README.md» не соответствует ни одному файлу
> cd docs
> git add README.md

Apple > ~/documents/s/geometric_lib/docs > on P main +5 ?1 | at 00:27:35
```

9. Пушим изменения на GitHub и наслаждаемся проделанной работой.



github.com

Мессенджер Лабораторная АИСД ИТМО №2 - Sort Me AlexeyZarechnev/geometric\_lib

README.md

### circle.py

- I used this file to calculate circle's area and perimeter.

#### Calculating circle's area

- This function receives radius of the circle and returns its area.

```
def area(r):  
    return math.pi * r * r  
  
print(area(2))  \\ 12,566370614359173  
print(area(4))  \\ 50,265482457436692  
print(area(5))  \\ 78,539816339744831
```

#### Calculating circle's perimeter

- This function receives radius of the circle and returns its perimeter.


```
def perimeter(r):  
    return 2 * math.pi * r  
  
print(perimeter(2))  \\ 12,566370614359173  
print(perimeter(4))  \\ 25,132741228718346  
print(perimeter(5))  \\ 31,415926535897932
```

### rectangle.py

- I used this file to calculate rectangle's area and perimeter.

#### Calculating rectangle's area

- This function receives length and width of the rectangle and returns its area.



github.com

Мессенджер Лабораторная АИСД ИТМО №2 - Sort Me AlexeyZarechnev/geometric\_lib

README.md

### rectangle.py

- I used this file to calculate rectangle's area and perimeter.

#### Calculating rectangle's area

- This function receives length and width of the rectangle and returns its area.

```
def area(a, b):  
    return a * b  
  
print(area(2, 3))  \\ 6  
print(area(4, 1.5))  \\ 6  
print(area(5, 5))  \\ 25
```

#### Calculating rectangle's perimeter

- This function receives length and width of the rectangle and returns its perimeter.


```
def perimeter(a, b):  
    return 2 * (a + b)  
  
print(perimeter(2, 3))  \\ 12  
print(perimeter(4, 1.5))  \\ 15  
print(perimeter(5, 5))  \\ 20
```

### square.py

- I used this file to calculate square's area and perimeter.

#### Calculating square's area

- This function receives square's side length and returns square's area.



github.com

МессенджерЛабораторная АнСД ИТМО №2 - Sort MeAlexeyZarechnyev/geometric\_lib

README.md

square.py

I used this file to calculate square's area and perimeter.

Calculating square's area

This function receives square's side length and returns square's area.

```
def area(a):  
    return a * a  
  
print(area(2))    \\ 4  
print(area(4))    \\ 16  
print(area(5))    \\ 25
```

Calculating square's perimeter

This function receives square's side length and returns square's perimeter.

```
def perimeter(a):  
    return 4 * a  
  
print(perimeter(2))    \\ 8  
print(perimeter(4))    \\ 16  
print(perimeter(5))    \\ 20
```

triangle.py

I used this file to calculate triangle's area and perimeter.

Calculating triangle's area

github.com

МессенджерЛабораторная АнСД ИТМО №2 - Sort MeAlexeyZarechnyev/geometric\_lib

README.md

I used this file to calculate triangle's area and perimeter.

Calculating triangle's area

This function receives triangle's sides lengths and returns triangles's area.

```
def area(a, h):  
    return a * h / 2  
  
print(area(2, 1))    \\ 1  
print(area(4, 3))    \\ 6  
print(area(5, 10))   \\ 25
```

Calculating triangles's perimeter

This function receives triangle's sides lengths and returns triangles's perimeter.

```
def perimeter(a, b, c):  
    return a + b + c  
  
print(perimeter(2, 5, 4))    \\ 11  
print(perimeter(4, 4, 1))    \\ 9  
print(perimeter(5, 5, 3))    \\ 13
```

Project history

- 8ba9aeb Circle and square added
- d078c8d Docs added
- 6bd60b5 added rectangle.py
- bf7ed26 fixed rectangle.py and added triangle.py
- 6e2e3f8 added comments in all files