Федеральное государственное автономное образовательное учреждение высшего образования

«Национальный исследовательский университет ИТМО»

Факультет Информационных технологий и программирования

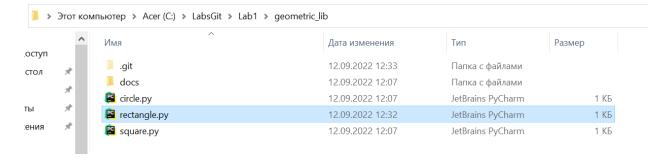Работа: Лабораторная работа по Git

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Санкт-Петербург

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```
C:\>cd LabsGit

C:\LabsGit>cd Lab1

C:\LabsGit\Lab1>git clone https://github.com/smartiqaorg/geometric_lib
Cloning into 'geometric_lib'...
remote: Enumerating objects: 35, done.
remote: Counting objects: 100% (18/18), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 35 (delta 8), reused 6 (delta 6), pack-reused 17
Unpacking objects: 100% (35/35), done.

C:\LabsGit\Lab1>_
```
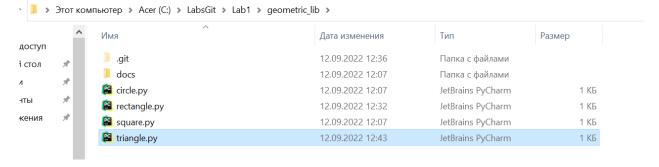
```
C:\LabsGit\Lab1\geometric_lib>git branch new_features_367159

C:\LabsGit\Lab1\geometric_lib>git checkout new_features_367159
Switched to branch 'new_features_367159'
```

> Этот компьютер > Acer (C:) > LabsGit > Lab1 > geometric_lib

Имя	Дата изменения	Тип	Размер
.git	12.09.2022 12:33	Папка с файлами	
docs	12.09.2022 12:07	Папка с файлами	
circle.py	12.09.2022 12:07	JetBrains PyCharm	1 КБ
rectangle.py	12.09.2022 12:32	JetBrains PyCharm	1 КБ
square.py	12.09.2022 12:07	JetBrains PyCharm	1 КБ

```
C:\LabsGit\Lab1\geometric_lib>git add rectangle.py
```

```
C:\LabsGit\Lab1\geometric_lib>git commit -m "added rectangle.py"
[new_features_367159 1a54941] added rectangle.py
 1 file changed, 5 insertions(+)
 create mode 100644 rectangle.py
```

> Этот компьютер > Acer (C:) > LabsGit > Lab1 > geometric_lib >

Имя	Дата изменения	Тип	Размер
.git	12.09.2022 12:36	Папка с файлами	
docs	12.09.2022 12:07	Папка с файлами	
circle.py	12.09.2022 12:07	JetBrains PyCharm	1 КБ
rectangle.py	12.09.2022 12:32	JetBrains PyCharm	1 КБ
square.py	12.09.2022 12:07	JetBrains PyCharm	1 КБ
triangle.py	12.09.2022 12:43	JetBrains PyCharm	1 КБ

```
C:\LabsGit\Lab1\geometric_lib>git add triangle.py

C:\LabsGit\Lab1\geometric_lib>git commit -m "added triangle.py"
[new_features_367159 fb225b8] added triangle.py
 1 file changed, 5 insertions(+)
 create mode 100644 triangle.py
```

```
rectangle.py ×
1    □def area(a, b):
2    └    return a * b
3
4    □def perimeter(a, b):
5    └    return 2 * (a + b)
```

```
C:\LabsGit\Lab1\geometric_lib>git add rectangle.py

C:\LabsGit\Lab1\geometric_lib>git commit -m "perimetr function corrected"
[new_features_367159 07a2af0] perimetr function corrected
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
C:\LabsGit\Lab1\geometric_lib>git log --graph --all --pretty=oneline
* 07a2af0449cad0ba9b7d57186e89e89edb7362f1 (HEAD -> new_features_367159) perimetr function corrected
* fb225b85545e183a566e6df6ebd056737a29126a added triangle.py
* 1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b added rectangle.py
| * 86edb1c3dd57fa9abc7ba2ec7052507938084727 (origin/release) L-05: Update Docs. Add user agreement info
| * 438b89a1dfc58d90e9036fe431771427965cd1ff L-05: Add user agreement
| * 6adb96248a4d00d3bea13bd95d78ef52352cd1b4 L-03: Docs added
| | * 30494317cde4419be779c14306561e0eaa78b88b (origin/feature) L-04: Add rectangle.py
| |/
|/|
| | * b5b0fae727ca72c317c383b39c0af73d6adcd81c (origin/develop) L-04: Update docs for calculate.py
| | * d76db2ac7f69cc920ae2e6f669fb0671a7fa7d71 L-04: Add calculate.py
| | * 51c40ebfd0e0b65f52fe5e54740cbb038e492db3 L-04: Doc updated for triangle
| | * d080c7888b81955bad2ed78d58ad910526b5132a L-04: Triangle added
| |/
|/|
* | d078c8d9ee6155f3cb0e577d28d337b791de28e2 (origin/main, origin/HEAD, main) L-03: Docs added
|/
* 8ba9aeb3cea847b63a91ac378a2a6db758682460 L-03: Circle and square added
```

```
C:\LabsGit\Lab1\geometric_lib>git log --graph --pretty=oneline -3
* 07a2af0449cad0ba9b7d57186e89e89edb7362f1 (HEAD -> new_features_367159) perimetr function corrected
* fb225b85545e183a566e6df6ebd056737a29126a added triangle.py
* 1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b added rectangle.py
```

```
C:\LabsGit\Lab1\geometric_lib>git log --pretty=format:"%H" -3
07a2af0449cad0ba9b7d57186e89e89edb7362f1
fb225b85545e183a566e6df6ebd056737a29126a
1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b
```

```
C:\LabsGit\Lab1\geometric_lib>git show 07a2af0449cad0ba9b7d57186e89e89edb7362f1
commit 07a2af0449cad0ba9b7d57186e89e89edb7362f1 (HEAD -> new_features_367159)
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:50:15 2022 +0300

    perimetr function corrected

diff --git a/rectangle.py b/rectangle.py
index 6b7ed43..94494b8 100644
--- a/rectangle.py
+++ b/rectangle.py
@@ -2,4 +2,4 @@ def area(a, b):
     return a * b

 def perimeter(a, b):
-    return a + b
+    return 2 * (a + b)
```

```
C:\LabsGit\Lab1\geometric_lib>git show fb225b85545e183a566e6df6ebd056737a29126a
commit fb225b85545e183a566e6df6ebd056737a29126a
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:45:46 2022 +0300

    added triangle.py

diff --git a/triangle.py b/triangle.py
new file mode 100644
index 0000000..8871838
--- /dev/null
+++ b/triangle.py
@@ -0,0 +1,5 @@
+def area(a, h):
+    return a * h / 2
+
+def perimeter(a, b, c):
+    return a + b + c
```

```
C:\LabsGit\Lab1\geometric_lib>git show 1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b
commit 1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:36:16 2022 +0300

    added rectangle.py

diff --git a/rectangle.py b/rectangle.py
new file mode 100644
index 0000000..6b7ed43
--- /dev/null
+++ b/rectangle.py
@@ -0,0 +1,5 @@
+def area(a, b):
+    return a * b
+
+def perimeter(a, b):
+    return a + b
```

```
C:\LabsGit\Lab1\geometric_lib>git log
commit 07a2af0449cad0ba9b7d57186e89e89edb7362f1 (HEAD -> new_features_367159)
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:50:15 2022 +0300

    perimetr function corrected

commit fb225b85545e183a566e6df6ebd056737a29126a
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:45:46 2022 +0300

    added triangle.py

commit 1a54941ee6bdc101d6d84f3c8c9609bf79f9ef6b
Author: TGontar <gontar.ts@mail.ru>
Date:   Mon Sep 12 12:36:16 2022 +0300

    added rectangle.py

commit d078c8d9ee6155f3cb0e577d28d337b791de28e2 (origin/main, origin/HEAD, main)
Author: smartiqa <info@smartiqa.ru>
Date:   Thu Mar 4 14:55:29 2021 +0300

    L-03: Docs added

commit 8ba9aeb3cea847b63a91ac378a2a6db758682460
Author: smartiqa <info@smartiqa.ru>
Date:   Thu Mar 4 14:54:08 2021 +0300

    L-03: Circle and square added
```

```
C:\LabsGit\Lab1\geometric_lib>git checkout d078c8d9ee6155f3cb0e577d28d337b791de28e2
Note: checking out 'd078c8d9ee6155f3cb0e577d28d337b791de28e2'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by performing another checkout.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -b with the checkout command again. Example:

  git checkout -b <new-branch-name>

HEAD is now at d078c8d L-03: Docs added
```

```
C:\LabsGit\Lab1\geometric_lib>git branch --delete --force new_features_367159
Deleted branch new_features_367159 (was 07a2af0).
```

```
C:\LabsGit\Lab1\geometric_lib>git log
commit d078c8d9ee6155f3cb0e577d28d337b791de28e2 (HEAD, origin/main, origin/HEAD, main)
Author: smartiqa <info@smartiqa.ru>
Date:   Thu Mar 4 14:55:29 2021 +0300

    L-03: Docs added

commit 8ba9aeb3cea847b63a91ac378a2a6db758682460
Author: smartiqa <info@smartiqa.ru>
Date:   Thu Mar 4 14:54:08 2021 +0300

    L-03: Circle and square added
```