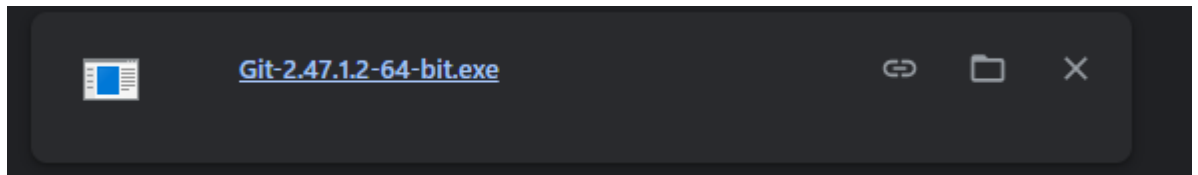


1. install git to local PC <https://git-scm.com/download/win>



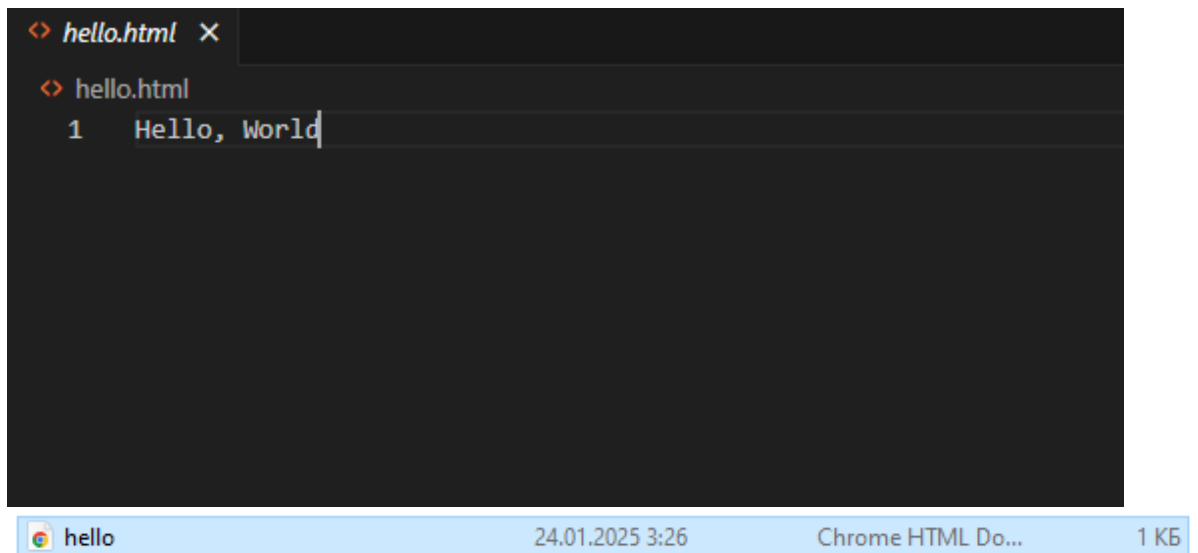
2. register in github <https://github.com/>

A screenshot of a GitHub profile page for user 'Nurba' (Puro1234). The profile picture is a purple and white checkered circle. The bio is 'Puro1234' with an email 'nu_serik@kbtu.kz'. The 'Popular repositories' section shows a repository named 'pp2' with a 'Public' badge. The '8 contributions in the last year' section shows a calendar grid with green squares indicating contributions. The 'Contribution activity' section shows a timeline for January 2025 with the event 'Created 1 repository' for 'Puro1234/pp2' on Jan 18.

3. solve 13 topics from githowto <https://githowto.com/ru>

Task: 2. Создание проекта

```
D:\githowto\repositories>mkdir work
D:\githowto\repositories>cd work
D:\githowto\repositories\work>touch hello.html
D:\githowto\repositories\work>git init
Initialized empty Git repository in D:/githowto/repositories/work/.git/
D:\githowto\repositories\work>git add hello.html
D:\githowto\repositories\work>git commit -m "Initial Commit"
[main (root-commit) c318f72] Initial Commit
1 file changed, 1 insertion(+)
create mode 100644 hello.html
D:\githowto\repositories\work>
```

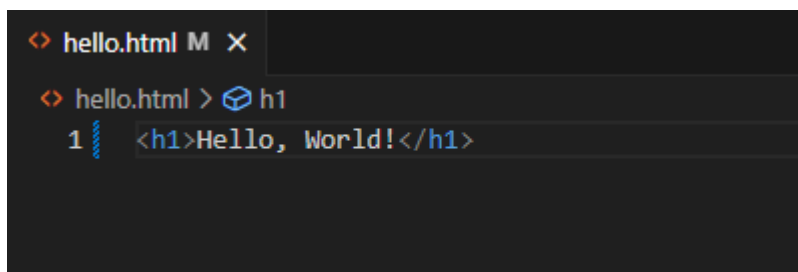


Task: 3. Проверка состояния

```
D:\githowto\repositories\work>git status
On branch main
nothing to commit, working tree clean

D:\githowto\repositories\work>_
```

Task: 4. Внесение изменений



```
D:\githowto\repositories\work>git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   hello.html

no changes added to commit (use "git add" and/or "git commit -a")
D:\githowto\repositories\work>
```

Task: 5. Индексация изменений

```
D:\githowto\repositories\work>git add hello.html

D:\githowto\repositories\work>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

D:\githowto\repositories\work>
```

Task: 6. Индексация и коммит

```
D:\githowto\repositories\work>git add a.html
fatal: pathspec 'a.html' did not match any files

D:\githowto\repositories\work>git add b.html
fatal: pathspec 'b.html' did not match any files

D:\githowto\repositories\work>git commit -m "Changes for a and b"
[main 4258282] Changes for a and b
 1 file changed, 1 insertion(+), 1 deletion(-)

D:\githowto\repositories\work>
```

```
D:\githowto\repositories\work>git add c.html
fatal: pathspec 'c.html' did not match any files

D:\githowto\repositories\work>git commit -m "Unrelated change to c"
On branch main
nothing to commit, working tree clean

D:\githowto\repositories\work>
```

Task: 7. Коммит изменений

```
<> hello.html > h2
1  <h2>Hello, World!</h2>
```

```
1  Added h1 tag
2  # Please enter the commit message for your changes. Lines starting
3  # with '#' will be ignored, and an empty message aborts the commit.
4  #
5  # On branch main
6  # Changes to be committed:
7  #   modified:   hello.html
8  #
9
```

```
D:\githowto\repositories\work>git commit -a
[main 5d113d4] Added h1 tag
1 file changed, 1 insertion(+), 1 deletion(-)

D:\githowto\repositories\work>fvfsbs
```

```
D:\githowto\repositories\work>git status
On branch main
nothing to commit, working tree clean

D:\githowto\repositories\work>
```

Task: 8. Изменения, а не файлы

```
<> hello.html > html
1 <html>
2   <body>
3     <h1>Hello, World!</h1>
4   </body>
5 </html>
```

```
D:\githowto\repositories\work>git add hello.html
```

```
D:\githowto\repositories\work>_
```

```
<> hello.html > html > head
1 <html>
2   <head>
3 </head>
4   <body>
5     <h1>Hello, World!</h1>
6   </body>
7 </html>
```

```
D:\githowto\repositories\work>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.html
```

```
D:\githowto\repositories\work>_
```

```
D:\githowto\repositories\work>git commit -m "Added standard HTML page tags"
[main 627e470] Added standard HTML page tags
1 file changed, 5 insertions(+), 1 deletion(-)
```

```
D:\githowto\repositories\work>git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.html
```

```
no changes added to commit (use "git add" and/or "git commit -a")
```

```
D:\githowto\repositories\work>_
```

```
D:\githowto\repositories\work>git add .

D:\githowto\repositories\work>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html

D:\githowto\repositories\work>_
```

```
D:\githowto\repositories\work>git commit -m "Added HTML header"
[main 0ce1145] Added HTML header
1 file changed, 2 insertions(+)

D:\githowto\repositories\work>
```

Task: 9. История

```
D:\githowto\repositories\work>git log
commit 0ce11459dc9b0ee37c5b38216dfa0e56e3e719d7 (HEAD -> main)
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 04:12:23 2025 +0500

    Added HTML header

commit 627e470a09cffc96a441ab4c2274e2e913d38b5d
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 04:10:48 2025 +0500

    Added standard HTML page tags

commit 5d113d4bca1645a553a9a46dee32908c47d15ea3
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:58:59 2025 +0500

    Added h1 tag

commit 425828253b37567eccd492766f2438f45ac2f74f
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:48:49 2025 +0500

    Changes for a and b

commit c318f7245ca7436c58ca9f997477c50a6cc685c5
D:\githowto\repositories\work>git log --pretty=oneline
0ce1145 Fri Jan 24 04:12:23 2025 +0500 Added HTML header (Puro1234)
627e470 Fri Jan 24 04:10:48 2025 +0500 Added standard HTML page tags (Puro1234)
5d113d4 Fri Jan 24 03:58:59 2025 +0500 Added h1 tag (Puro1234)
4258282 Fri Jan 24 03:48:49 2025 +0500 Changes for a and b (Puro1234)
c318f72 Fri Jan 24 03:30:35 2025 +0500 Initial Commit (Puro1234)

D:\githowto\repositories\work>git log --all --pretty=format:"%h %cd %s (%an)" --since="7 days ago"
0ce1145 Fri Jan 24 04:12:23 2025 +0500 Added HTML header (Puro1234)
627e470 Fri Jan 24 04:10:48 2025 +0500 Added standard HTML page tags (Puro1234)
5d113d4 Fri Jan 24 03:58:59 2025 +0500 Added h1 tag (Puro1234)
4258282 Fri Jan 24 03:48:49 2025 +0500 Changes for a and b (Puro1234)
c318f72 Fri Jan 24 03:30:35 2025 +0500 Initial Commit (Puro1234)
```

- `--pretty="..."` — определяет формат вывода.
- `%h` — укороченный хеш коммита.
- `%ad` — дата коммита.

- `|` — просто визуальный разделитель.
- `%s` — комментарий.
- `%d` — дополнения коммита («головы» веток или теги).
- `%an` — имя автора.
- `--date=short` — сохраняет формат даты коротким и симпатичным.

Task: 10. Получение старых версий

```
D:\githowto\repositories\work>git log
commit 0ce11459dc9b0ee37c5b38216dfa0e56e3e719d7 (HEAD -> main)
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 04:12:23 2025 +0500

    Added HTML header

commit 627e470a09cffc96a441ab4c2274e2e913d38b5d
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 04:10:48 2025 +0500

    Added standard HTML page tags

commit 5d113d4bca1645a553a9a46dee32908c47d15ea3
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:58:59 2025 +0500

    Added h1 tag

commit 425828253b37567eccd492766f2438f45ac2f74f
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:48:49 2025 +0500

    Changes for a and b

commit c318f7245ca7436c58ca9f997477c50a6cc685c5
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:30:35 2025 +0500

    Initial Commit

D:\githowto\repositories\work>_
```

```
D:\githowto\repositories\work>git checkout 0ce1145
Note: switching to '0ce1145'.

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 switching back to a branch.

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

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 0ce1145 Added HTML header
```

```

D:\githowto\repositories\work>cat hello.html
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
D:\githowto\repositories\work>_

D:\githowto\repositories\work>git switch main
Switched to branch 'main'

D:\githowto\repositories\work>cat hello.html
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
D:\githowto\repositories\work>_

```

Task: 11. Создание тегов версий

```

D:\githowto\repositories\work>git tag v1

D:\githowto\repositories\work>git log --oneline
0ce1145 (HEAD -> main, tag: v1) Added HTML header
627e470 Added standard HTML page tags
5d113d4 Added h1 tag
4258282 Changes for a and b
c318f72 Initial Commit

D:\githowto\repositories\work>_

D:\githowto\repositories\work>git checkout v1~1
Note: switching to 'v1~1'.

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 switching back to a branch.

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

    git switch -c <new-branch-name>

Or undo this operation with:

    git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 627e470 Added standard HTML page tags

D:\githowto\repositories\work>cat hello.html
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
D:\githowto\repositories\work>_

```



```
D:\githowto\repositories\work>git tag v1-beta

D:\githowto\repositories\work>git log
commit 627e470a09cffc96a441ab4c2274e2e913d38b5d (HEAD, tag: v1-beta)
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 04:10:48 2025 +0500

    Added standard HTML page tags

commit 5d113d4bca1645a553a9a46dee32908c47d15ea3
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:58:59 2025 +0500

    Added h1 tag

commit 425828253b37567eccd492766f2438f45ac2f74f
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:48:49 2025 +0500

    Changes for a and b

commit c318f7245ca7436c58ca9f997477c50a6cc685c5
Author: Puro1234 <nu_serik@kbtu.kz>
Date:   Fri Jan 24 03:30:35 2025 +0500

    Initial Commit

D:\githowto\repositories\work>
```

```
D:\githowto\repositories\work>git checkout v1
Previous HEAD position was 627e470 Added standard HTML page tags
HEAD is now at 0ce1145 Added HTML header

D:\githowto\repositories\work>git checkout v1-beta
Previous HEAD position was 0ce1145 Added HTML header
HEAD is now at 627e470 Added standard HTML page tags
```

```
D:\githowto\repositories\work>git tag
v1
v1-beta
```

```
D:\githowto\repositories\work>git log --oneline
627e470 (HEAD, tag: v1-beta) Added standard HTML page tags
5d113d4 Added h1 tag
4258282 Changes for a and b
c318f72 Initial Commit
```

Task: 12. Отмена локальных изменений (до индексации)

```
D:\githowto\repositories\work>git switch main
Previous HEAD position was 627e470 Added standard HTML page tags
Switched to branch 'main'
```



```
<> hello.html > html
1  <html>
2    <head>
3  </head>
4    <body>
5      <h1>Hello, World!</h1>
6    <!-- This is a bad comment. We want to revert it. -->
7  </body>
8  </html>
```

```
D:\githowto\repositories\work>git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.html

no changes added to commit (use "git add" and/or "git commit -a")
```

```
D:\githowto\repositories\work>git restore hello.html

D:\githowto\repositories\work>git status
On branch main
nothing to commit, working tree clean

D:\githowto\repositories\work>cat hello.html
<html>
  <head>
  </head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
D:\githowto\repositories\work>
```

**Task: 13. Отмена
проиндексированных изменений
(перед коммитом)**

```
<> hello.html > html
1  <html>
2    <head>
3      <!-- This is an unwanted but staged comment -->
4    </head>
5    <body>
6      <h1>Hello, World!</h1>
7    </body>
8  </html>
```

```
D:\githowto\repositories\work>git add hello.html
```

```
D:\githowto\repositories\work>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

```
D:\githowto\repositories\work>git restore --staged hello.html
```

```
D:\githowto\repositories\work>git restore hello.html
```

```
D:\githowto\repositories\work>git status
On branch main
nothing to commit, working tree clean
```

4. read and make exercises from w3school from: HOME to Python Strings.

<https://www.w3schools.com/python/default.asp>

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