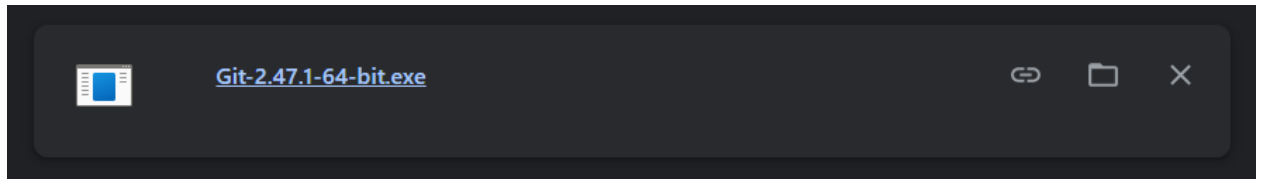
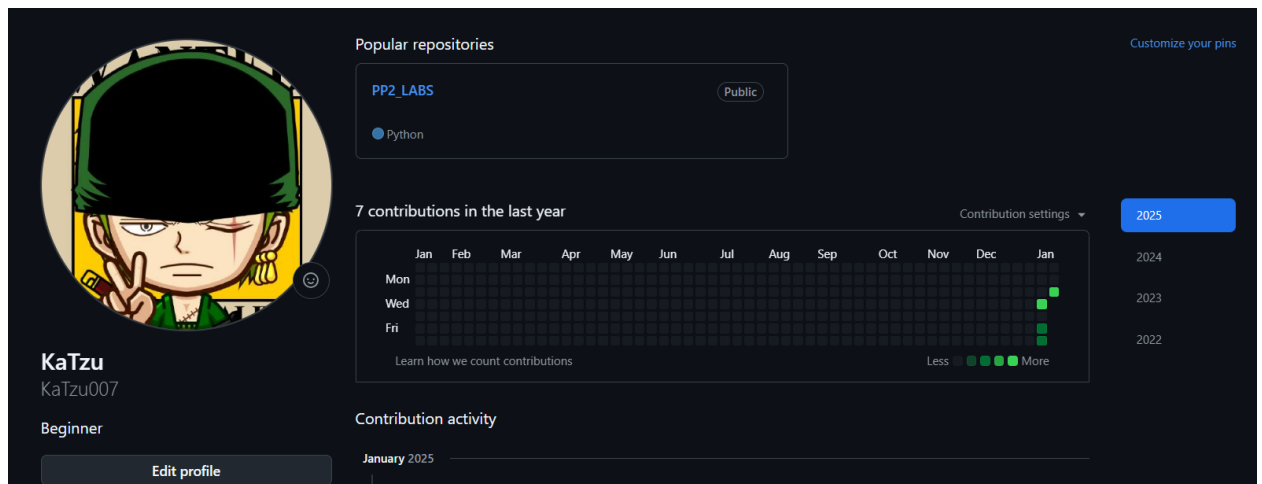


1. install git to local PC <https://git-scm.com/download/win>



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



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

Task: 2. Создание проекта

```
C:\Users\Akyl>mkdir work
Подпапка или файл work уже существует.

C:\Users\Akyl>cd work

C:\Users\Akyl\work>touch hello.html
"touch" не является внутренней или внешней
командой, исполняемой программой или пакетным файлом.

C:\Users\Akyl\work>echo Hello, World > hello.html

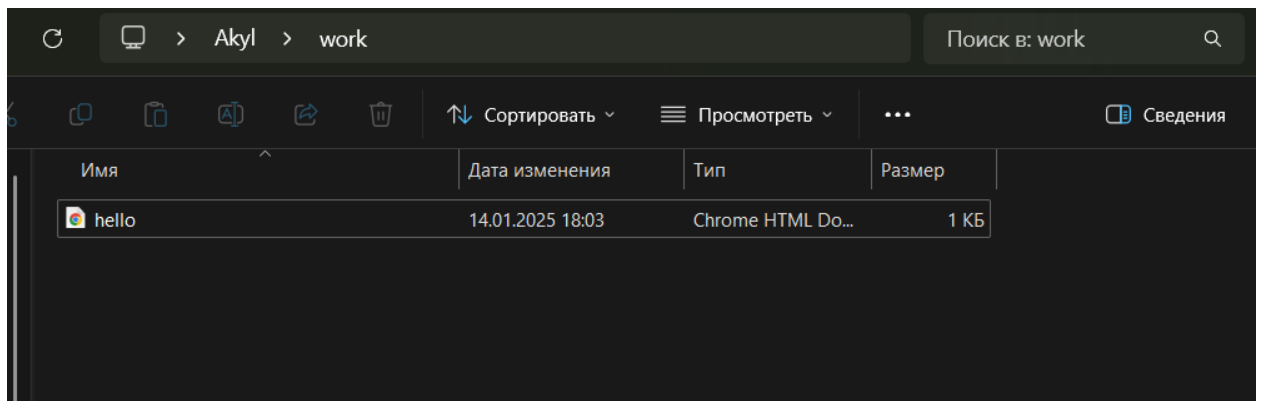
C:\Users\Akyl\work>git init
Initialized empty Git repository in C:/Users/Akyl/work/.git/

C:\Users\Akyl\work>git add hello.html

C:\Users\Akyl\work>git commit -m ""
Aborting commit due to empty commit message.

C:\Users\Akyl\work>git commit -m "GIT"
[main (root-commit) b276be1] GIT
 1 file changed, 1 insertion(+)
 create mode 100644 hello.html

C:\Users\Akyl\work>
```



Task: 3. Проверка состояния

```
C:\Users\Akyl\work>git status
On branch main
nothing to commit, working tree clean
```

Task: 4. Внесение изменений

```
C: > Users > Akyl > work > <> hello.html > h1
1 <h1>Hello, World!</h1>
```

```
C:\Users\Akyl\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")
```

Task: 5. Индексация изменений

```
C:\Users\Akyl\work>git add hello.html

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

Task: 6. Индексация и коммит

```
C:\Users\Akyl\work>git add hello.html

C:\Users\Akyl\work>git commit -m "Committing"
[main 944c228] Committing
 1 file changed, 1 insertion(+), 1 deletion(-)
```

Task : 7. Коммит изменений

```
C: > Users > Akyl > work > <> hello.html > h2
C:\ <h2>Hello, World!</h2>
```


```
C:\Users\Akyl\work>git commit
hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/Akyl/work/.git/COMMIT_EDITMSG to D
OS format...
```

```
Adding h2 tag
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Changes to be committed:
#   modified:   hello.html
#
```

```
C:\Users\Akyl\work>git commit
hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/Akyl/work/.git/COMMIT_EDITMSG to D
OS format...
dos2unix: converting file C:/Users/Akyl/work/.git/COMMIT_EDITMSG to Unix format...
[main 793f3a4] Adding h2 tag
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
C:\Users\Akyl\work>git status
On branch main
nothing to commit, working tree clean
```

Task: 8. Изменения, а не файлы

```
C: > Users > Akyl > work > <> hello.html >  html
1  <html>
2  |   <body>
3  |       <h1>Hello, World!</h1>
4  |   </body>
5  </html>
```

```
C:\Users\Akyl\work>git add hello.html
```

```
C: > Users > Akyl > work > <> hello.html >  html
1  <html>
2  |   <head>
3  |   </head>
4  |   <body>
5  |       <h1>Hello, World!</h1>
6  |   </body>
7  </html>
```

```
C:\Users\Akyl\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
```

```
C:\Users\Akyl\work>git commit -m "Added standard HTML page tags"
[main 67d2175] Added standard HTML page tags
 1 file changed, 5 insertions(+), 1 deletion(-)

C:\Users\Akyl\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")
```

```
C:\Users\Akyl\work>git add .

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

```
C:\Users\Akyl\work>git commit -m "Added HTML header"
[main 064f6e8] Added HTML header
1 file changed, 2 insertions(+)
```

Task: 9. История

```
Командная строка - git log  x + v
no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\Akyl\work>git add .

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

C:\Users\Akyl\work>git commit -m "Added HTML header"
[main 064f6e8] Added HTML header
1 file changed, 2 insertions(+)

C:\Users\Akyl\work>git log
commit 064f6e8c5ed80163ec555d33ce8b136683b641b1 (HEAD -> main)
Author: Akyl <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:35:05 2025 +0000

    Added HTML header

commit 67d217565936a7fb6ef44a23b1a83920062e1617
Author: Akyl <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:33:50 2025 +0000

    Added standard HTML page tags

commit 793f3a458df749a516ffc047803aae22abb3cc6e
```

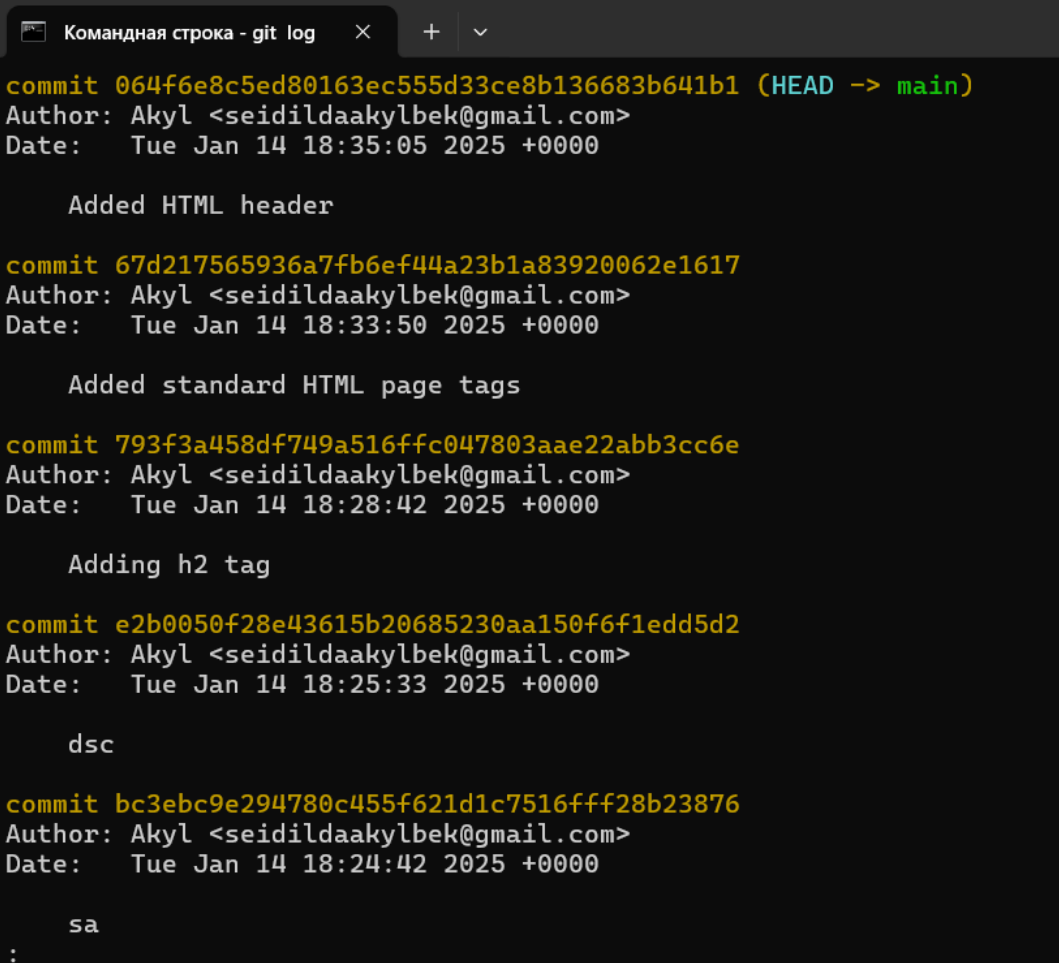
```
C:\Users\Akyl\work>git log --pretty=oneline
064f6e8c5ed80163ec555d33ce8b136683b641b1 (HEAD -> main) Added HTML header
67d217565936a7fb6ef44a23b1a83920062e1617 Added standard HTML page tags
793f3a458df749a516ffc047803aae22abb3cc6e Adding h2 tag
e2b0050f28e43615b20685230aa150f6f1edd5d2 dsc
bc3ebc9e294780c455f621d1c7516fff28b23876 sa
944c228cd8efcffff921be8ccddf853f7e384c88 Committing
b276be16b6834b5da514164ad62eb53e1749106c GIT
```

```
C:\Users\Akyl\work>git log --all --pretty=format:"%h %cd %s (%an)" --since="7 days ago"
064f6e8 Tue Jan 14 18:35:05 2025 +0000 Added HTML header (Akyl)
67d2175 Tue Jan 14 18:33:50 2025 +0000 Added standard HTML page tags (Akyl)
793f3a4 Tue Jan 14 18:28:42 2025 +0000 Adding h2 tag (Akyl)
e2b0050 Tue Jan 14 18:25:33 2025 +0000 dsc (Akyl)
bc3ebc9 Tue Jan 14 18:24:42 2025 +0000 sa (Akyl)
944c228 Tue Jan 14 18:16:27 2025 +0000 Committing (Akyl)
b276be1 Tue Jan 14 18:05:19 2025 +0000 GIT (Akyl)
```

```
C:\Users\AkyL\work>git log --pretty=format:"%h %ad | %s%d [%an]" --date=short
064f6e8 2025-01-14 | Added HTML header (HEAD -> main) [AkyL]
67d2175 2025-01-14 | Added standard HTML page tags [AkyL]
793f3a4 2025-01-14 | Adding h2 tag [AkyL]
e2b0050 2025-01-14 | dsc [AkyL]
bc3ebc9 2025-01-14 | sa [AkyL]
944c228 2025-01-14 | Committing [AkyL]
b276be1 2025-01-14 | GIT [AkyL]
```

- --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



```
Командная строка - git log  X  +  v

commit 064f6e8c5ed80163ec555d33ce8b136683b641b1 (HEAD -> main)
Author: AkyL <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:35:05 2025 +0000

    Added HTML header

commit 67d217565936a7fb6ef44a23b1a83920062e1617
Author: AkyL <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:33:50 2025 +0000

    Added standard HTML page tags

commit 793f3a458df749a516ffc047803aae22abb3cc6e
Author: AkyL <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:28:42 2025 +0000

    Adding h2 tag

commit e2b0050f28e43615b20685230aa150f6f1edd5d2
Author: AkyL <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:25:33 2025 +0000

    dsc

commit bc3ebc9e294780c455f621d1c7516fff28b23876
Author: AkyL <seidildaakylbek@gmail.com>
Date:   Tue Jan 14 18:24:42 2025 +0000

    sa
:
```

```
C:\Users\Akyl\work>git checkout 064f6e8
```

```
Note: switching to '064f6e8'.
```

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 064f6e8 Added HTML header
```

```
C:\Users\Akyl\work>cat hello.html
```

"cat" не является внутренней или внешней командой, исполняемой программой или пакетным файлом.

```
C:\Users\Akyl\work>type hello.html
```

```
<html>
  <head>
</head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

```
C:\Users\Akyl\work>git switch main
```

```
Switched to branch 'main'
```

```
C:\Users\Akyl\work>cat hello.html
```

"cat" не является внутренней или внешней командой, исполняемой программой или пакетным файлом.

```
C:\Users\Akyl\work>type hello.html
```

```
<html>
  <head>
</head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

Task: 11. Создание тегов версий

```
C:\Users\Akyl\work>git tag v1
```

```
C:\Users\Akyl\work>git log --oneline
064f6e8 (HEAD -> main, tag: v1) Added HTML header
67d2175 Added standard HTML page tags
793f3a4 Adding h2 tag
e2b0050 dsc
bc3ebc9 sa
944c228 Committing
b276be1 GIT
```

```
C:\Users\Akyl\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 67d2175 Added standard HTML page tags

```
C:\Users\Akyl\work>type hello.html
```

```
<html>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

```
C:\Users\Akyl\work>
```

```
C:\Users\Akyl\work>git tag v1-beta
```

```
C:\Users\Akyl\work>git log --oneline
67d2175 (HEAD, tag: v1-beta) Added standard HTML page tags
793f3a4 Adding h2 tag
e2b0050 dsc
bc3ebc9 sa
944c228 Committing
b276be1 GIT
```



```
C:\Users\Akyl\work>git checkout v1
Previous HEAD position was 67d2175 Added standard HTML page tags
HEAD is now at 064f6e8 Added HTML header
```

```
C:\Users\Akyl\work>git checkout v1-beta
Previous HEAD position was 064f6e8 Added HTML header
HEAD is now at 67d2175 Added standard HTML page tags
```

```
C:\Users\Akyl\work>git tag
v1
v1-beta
```

```
C:\Users\Akyl\work>git log --oneline
67d2175 (HEAD, tag: v1-beta) Added standard HTML page tags
793f3a4 Adding h2 tag
e2b0050 dsc
bc3ebc9 sa
944c228 Committing
b276be1 GIT
```

Task: 12. Отмена локальных изменений (до индексации)

```
C:\Users\Akyl\work>git switch main
Previous HEAD position was 67d2175 Added standard HTML page tags
Switched to branch 'main'
```

```
C: > Users > Akyl > work > <> 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>
```

```
C:\Users\Akyl\work>git switch main
Previous HEAD position was 67d2175 Added standard HTML page tags
Switched to branch 'main'

C:\Users\Akyl\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")
```

```
C:\Users\Akyl\work>git checkout hello.html
Updated 1 path from the index

C:\Users\Akyl\work>git status
On branch main
nothing to commit, working tree clean
```

```
C:\Users\Akyl\work>type hello.html
<html>
  <head>
</head>
  <body>
    <h1>Hello, World!</h1>
  </body>
</html>
```

Task: 13. Отмена проиндексированных изменений (перед коммитом)

```
C: > Users > Akyl > work > <> 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>
```

```
C:\Users\Akyl\work>git add hello.html
```

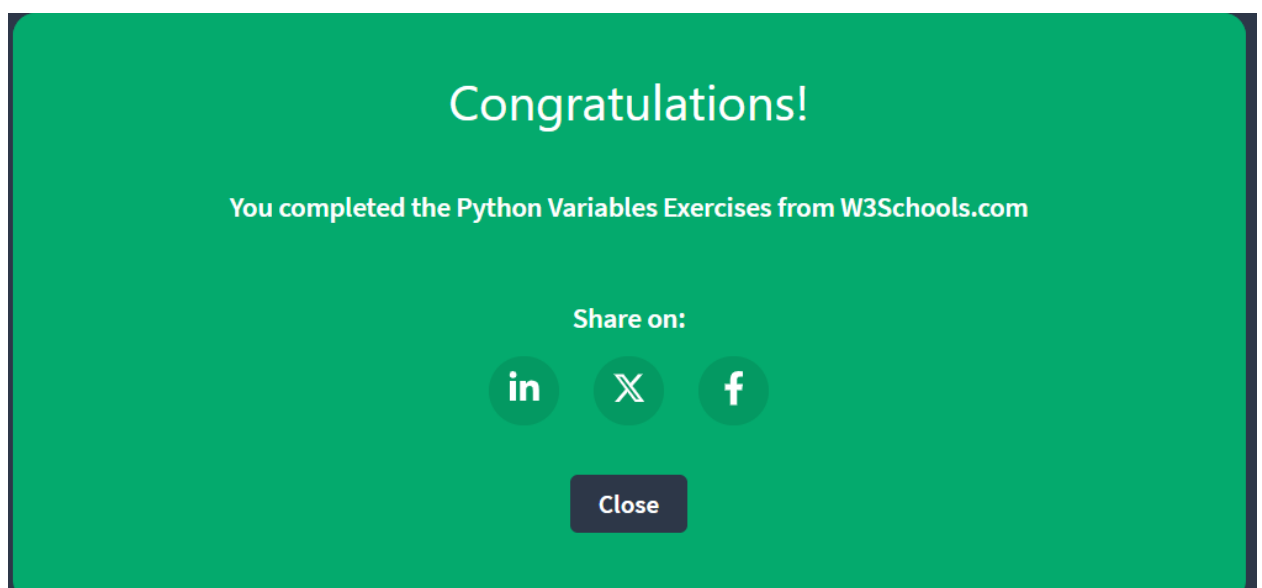
```
C:\Users\Akyl\work>git status
On branch main
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   hello.html
```

```
C:\Users\Akyl\work>git reset HEAD hello.html
Unstaged changes after reset:
M       hello.html
```

```
C:\Users\Akyl\work>git checkout hello.html
Updated 1 path from the index

C:\Users\Akyl\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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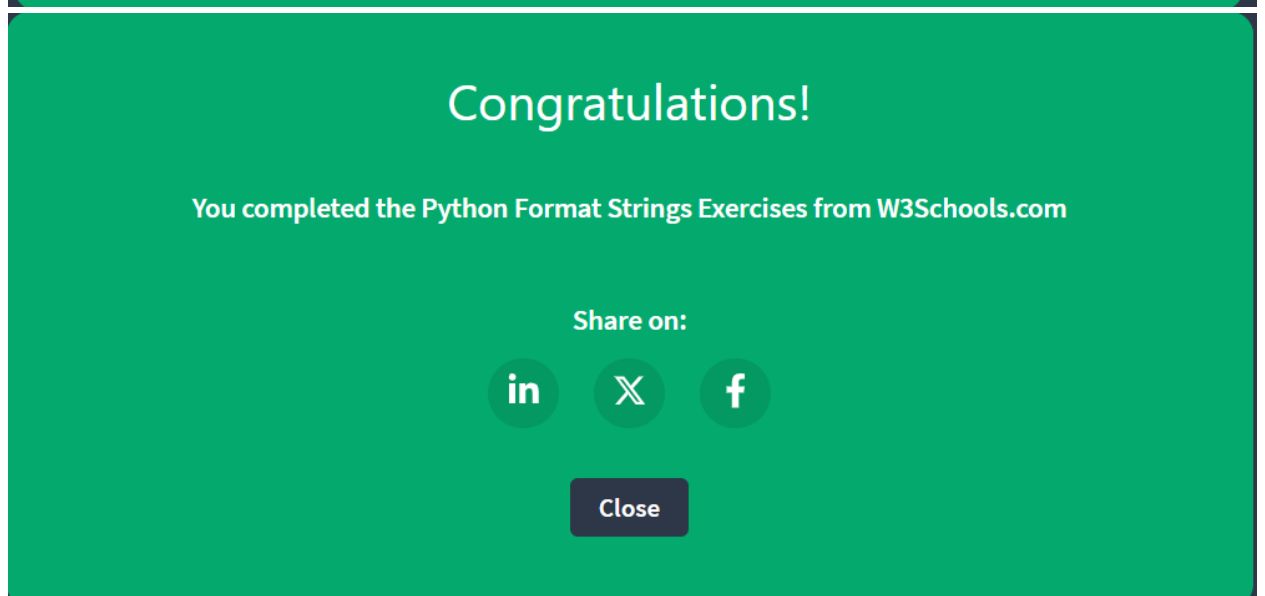
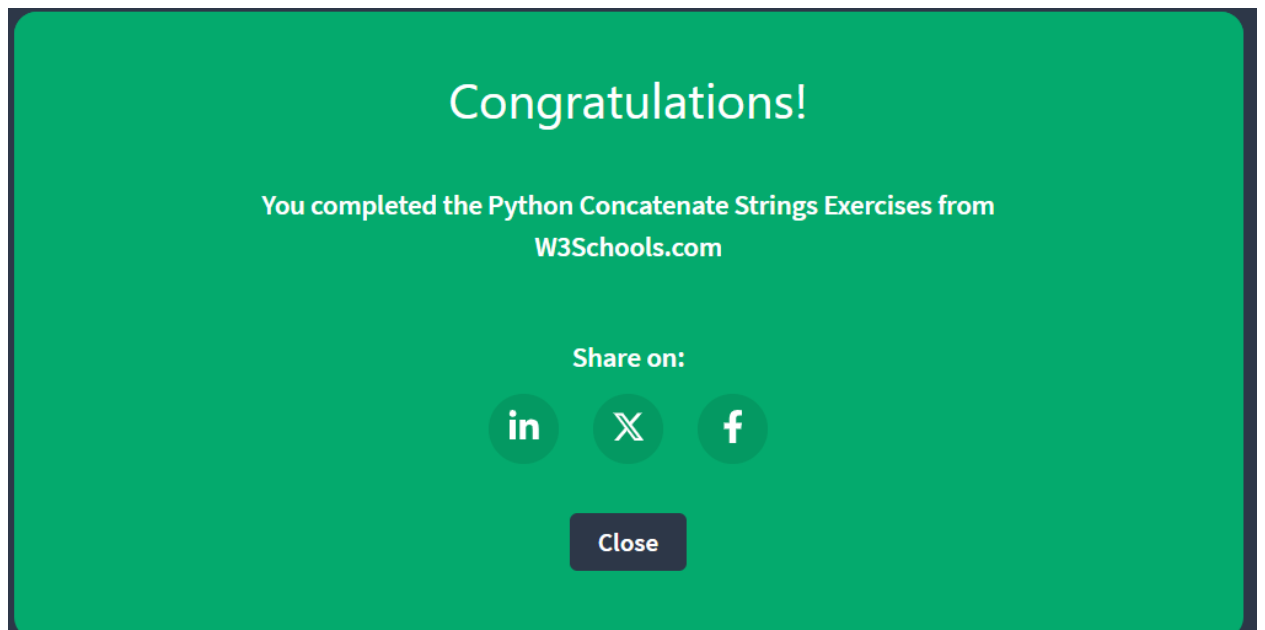
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5. all examples from articles save to your github account before deadline

Link to the github repository: https://github.com/KaTzu007/PP2_LABS