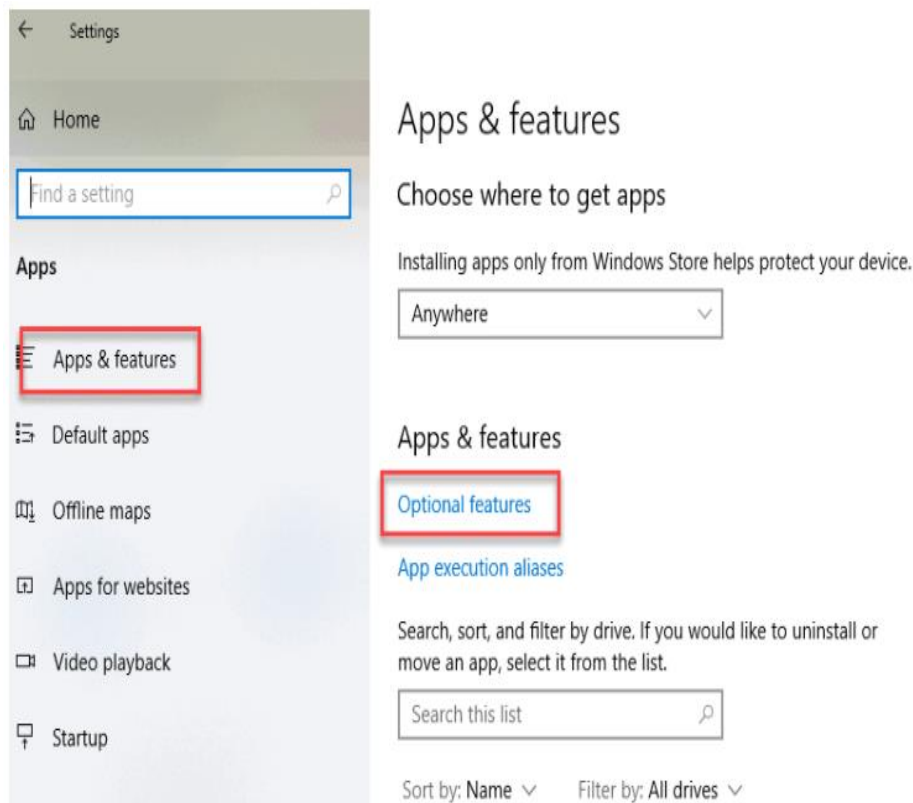


תרגיל הדגמת GIT

בתרגיל זה אנחנו נפתח חשבון GIT ונעלה אליו את הפרויקט שלנו מסוף שנה שעברה.

1. נפתח חשבון ב-github [/https://github.com](https://github.com)
 2. נייצר לנו צמד מפתחות פרטי-ציבורי שיאמתו אותנו בפניות ל-github.
 - א. נאפשר את התכונה open-ssh
- ניגש לאפליקציות ותכונות












• נאפשר את openSSH client

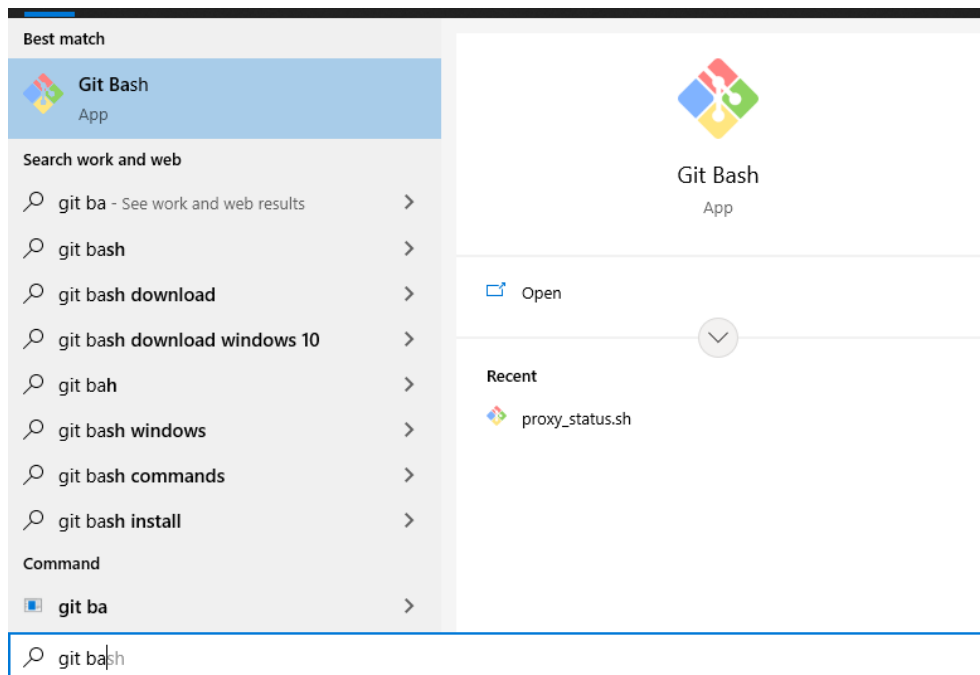
Optional features

Optional features

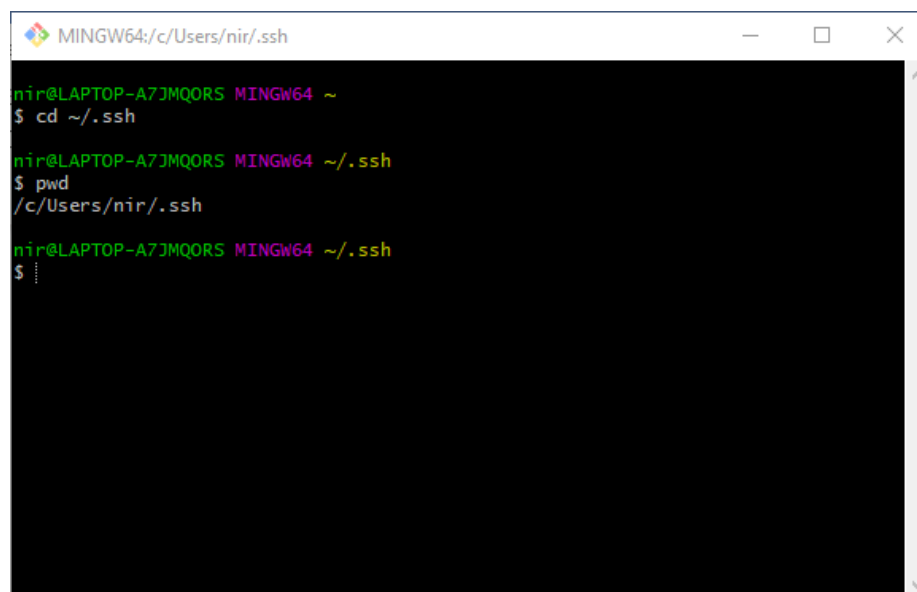
[See optional feature history](#)

	Add a feature	
	English (US) handwriting	7.38 MB
	English (US) optical character recognition	228 KB
	English (US) speech recognition	95.8 MB
	English (US) text-to-speech	64.6 MB
	English (US) typing	40.7 MB
	Math Recognizer	16.6 MB
	Microsoft Quick Assist	1.44 MB
	OpenSSH Client	5.05 MB

ב. נפתח אפליקציה בשם git bash

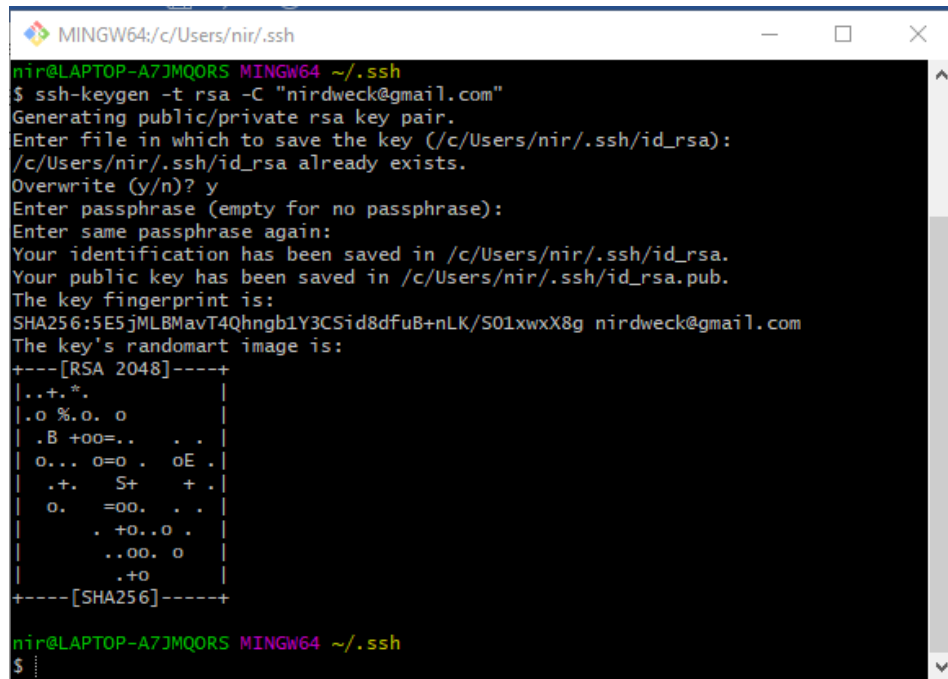


ג. ניגש לתיקייה ~/.ssh



ד. נייצר את צמד המפתחות בעזרת הפקודה (אין לשנות את שם הקובץ ואין לתת passphrase)

```
ssh-keygen -t rsa -C "your_email@example.com"
```



```
MINGW64:/c/Users/nir/.ssh
nir@LAPTOP-A7JMQORS MINGW64 ~/.ssh
$ ssh-keygen -t rsa -C "nirdweck@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/nir/.ssh/id_rsa):
/c/Users/nir/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/nir/.ssh/id_rsa.
Your public key has been saved in /c/Users/nir/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:5E5jMLBMavT4Qhngb1Y3CSid8dfuB+nLK/S01xwxX8g nirdweck@gmail.com
The key's randomart image is:
+---[RSA 2048]-----+
|. .+. *|.
|.o %o.o. o|.
|.B +oo=.. .|.
|.o... o=o . oE .|
|.+. S+ +. |
|.o. =oo. .|.
|. . +o..o .|.
|. .oo. o|.
|. +o|.
+-----[SHA256]-----+
nir@LAPTOP-A7JMQORS MINGW64 ~/.ssh
$
```

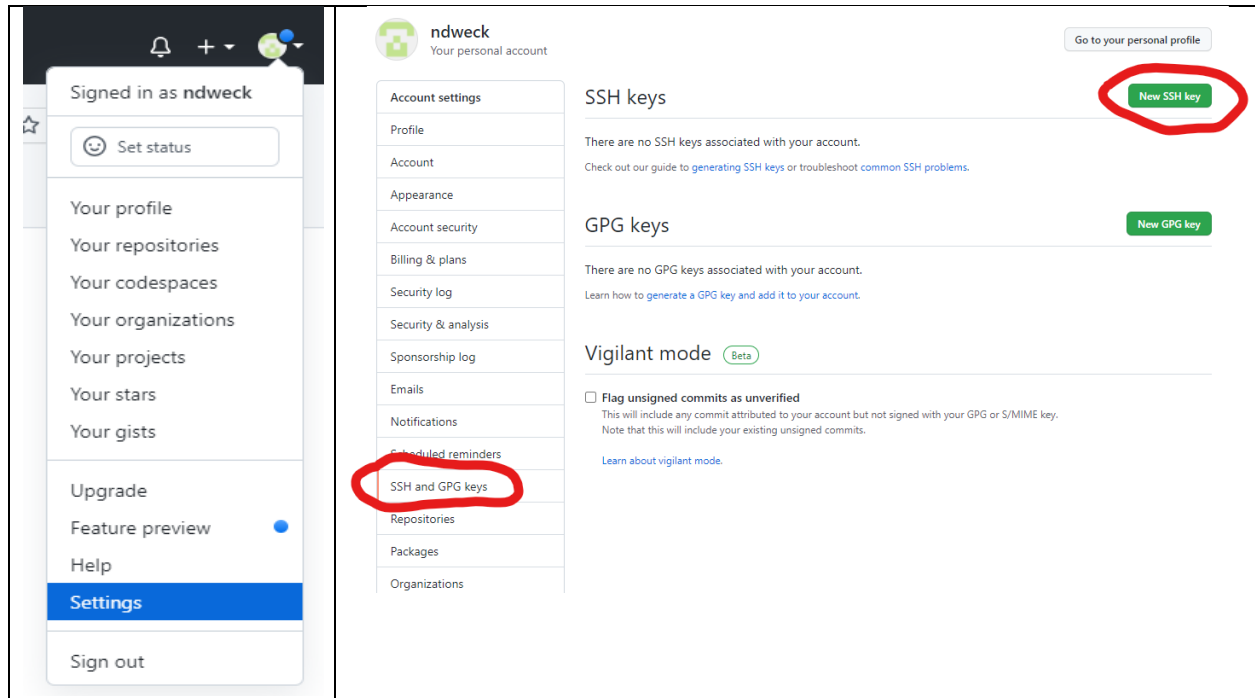
ה. המפתחות נוצרו בתיקיה

C:\Users\YOUR-USER\.ssh

המפתח הפרטי נקרא id_rsa.

המפתח הציבורי נקרא id_rsa.pub.

ו. נעלה את המפתח הציבורי ל-gitHub.
ניגש להגדרות באתר




נפתח את קובץ המפתח הציבורי pub.id_rsa בעזרת notepad++ ונעתיק את כל תוכן במפתח לאתר.

נוכל לראות באתר את החתימה של המפתח:

SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.



nirdweck@gmail.com
SHA256: 5E5jMLBMavT4Qhngb1Y3CSid8dfuB+nLK/S01xwxX8g
Added on Aug 31, 2021
Never used — Read/write

[Delete](#)

3. נייצר repository חדש:

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *

ndweck ▾

Repository name *

/ test ✓

Great repository names are short and memorable. Need inspiration? How about [supreme-carnival?](#)

Description (optional)

my first repository

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

☐ Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

☐ Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

This will set `main` as the default branch. Change the default name in your [settings](#).

Create repository


4. כדי למנוע בעיות בהמשך, בהגדרות הפרויקט נשנה את ה-default branch ל-master.

[Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

[Options](#)
[Manage access](#)
[Security & analysis](#)
[Branches](#)

Default branch

The default branch is considered the "base" branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

master 

5. ניגש לgit bash, נייצר תיקייה ריקה ונייצר git בעזרת הפקודה git init.

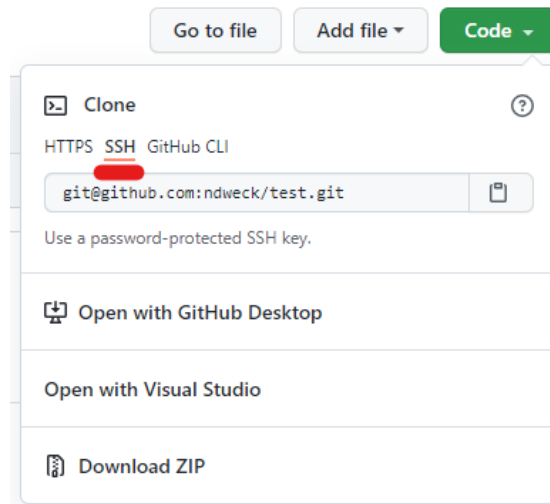
```
nir@LAPTOP-A7JMQORS MINGW64 ~/.ssh
$ cd d:/

nir@LAPTOP-A7JMQORS MINGW64 /d
$ cd work/crypto/test/

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test
$ git init
Initialized empty Git repository in D:/work/crypto/test/.git/

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$
```

6. באתר, ניגש ל-code ונעתיק את הקישור עבור ssh ונוסיף אותו להגדרת ה-repository במחשב.



```
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git remote add origin git@github.com:ndweck/test.git

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git remote -v
origin  git@github.com:ndweck/test.git (fetch)
origin  git@github.com:ndweck/test.git (push)

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$
```

1. נמשיך את ה-repository מהאתר בעזרת

git pull origin

```
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git pull origin master
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From github.com:ndweck/test
 * branch          master      -> FETCH_HEAD
 * [new branch]    master      -> origin/master

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$
```

7. נעתיק את קבצי הפרויקט לתיקייה ונבדוק את הסטטוס של הקבצים ונראה שהם לא תחת בקרת תצורה בעזרת

git status

```
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        .idea/
        hac_vigenere.py
        vigenere_cipher.py

nothing added to commit but untracked files present (use "git add" to track)
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$
```

8. נוסיף אותם לבקרה בעזרת

git add .

ולאחר מכן נבצע commit (לא לשכוח הערה)

git commit -m "initial version"

```
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git add .
warning: LF will be replaced by CRLF in .idea/inspectionProfiles/profiles_settings.xml.
The file will have its original line endings in your working directory.

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git commit -m "initial version"
[master (root-commit) 83dc17f] initial version
7 files changed, 222 insertions(+)
create mode 100644 .idea/.gitignore
create mode 100644 .idea/inspectionProfiles/profiles_settings.xml
create mode 100644 .idea/misc.xml
create mode 100644 .idea/modules.xml
create mode 100644 .idea/vigenere.iml
create mode 100644 hac_vigenere.py
create mode 100644 vigenere_cipher.py

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$
```


9. נעלה את הקבצים ל-gitHub בעזרת הפקודה

git push origin master

```
nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ git push origin master
Counting objects: 11, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (9/9), done.
Writing objects: 100% (11/11), 4.92 KiB | 2.46 MiB/s, done.
Total 11 (delta 0), reused 0 (delta 0)
To github.com:ndweck/test.git
   b7e2f69..b794ff1  master -> master

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ ^C

nir@LAPTOP-A7JMQORS MINGW64 /d/work/crypto/test (master)
$ .....
```

10. נבדוק שהקבצים עלו לאתר

master	1 branch	0 tags	Go to file	Add file	Code
ndweck	initial version	b794ff1	3 minutes ago	2 commits	
.idea	initial version				3 minutes ago
README.md	Initial commit				31 minutes ago
hac_vigenere.py	initial version				3 minutes ago
vigenere_cipher.py	initial version				3 minutes ago

בהצלחה