

Python faylni (.py) .exe faylga o'tkazish

Assalomu aleykum!

Bu maqolamizda siz qanday qilib **.py** faylni **.exe** faylga o'tkazish mumkinligini bilib olasiz.

Buning ustunligi shundaki, sizning do'stingiz Pythonni o'rnatmasdan sizning dasturingizni sinab ko'rishi mumkin.

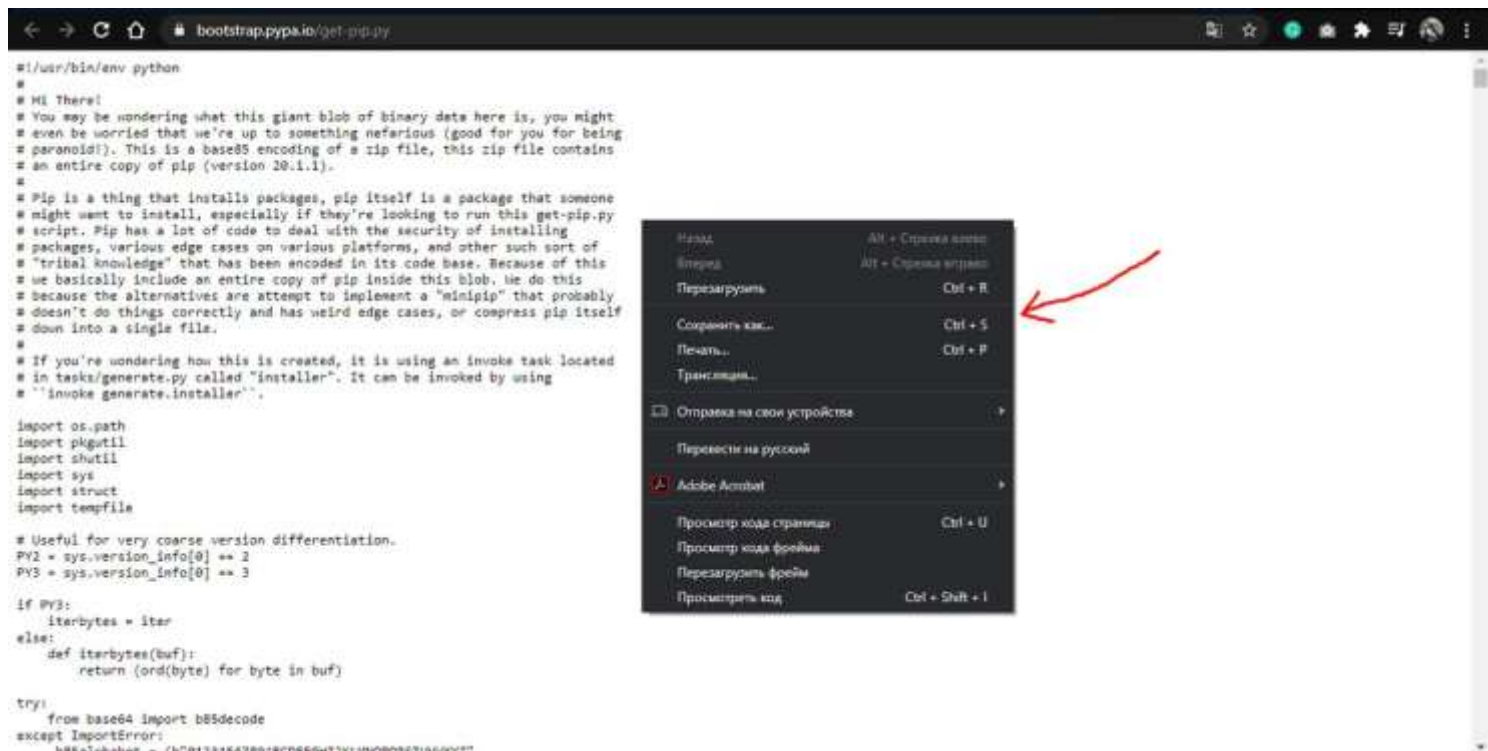
1. Biz **Pyinstaller**ni pip orqali o'rnatishimiz kerak, buning uchun **cmd**ni ishga tushurib

```
pip install PyInstaller
```

deb yozishimiz kerak. Agar sizda pip o'rnatilmagan degan xabar chiqsa, unda oldin siz pip ni windowsga o'rnatishingiz kerak. Demak avvalo windows ga **pip** ni o'rnatishni ko'rib o'tamiz !!!

"Windows"ga "pip"ni o'rnatish.

Demak hozir biz **Python**ning to'plamlarini o'rnatish uchun kerak bo'ladigan **pip** ni **Windows**ga o'rnatishni ko'rib chiqamiz.



1. <https://bootstrap.pypa.io/get-pip.py> ga kirib kodlarni saqlang.
2. **Cmd**ni ishga tushuring.
 - P.S: **Cmd**ni ishga tushurish uchun **poisk**ga kirib "cmd" deb yozsangiz kifoya)
3. U yerda siz saqlagan [get-pip.py](#) fayliga yo'l yozing, masalan ↵

```
Администратор: Командная строка
Microsoft Windows [Version 10.0.19041.329]
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C:\Users\ASUS VivoBook>cd D:\python

C:\Users\ASUS VivoBook>D:

D:\python>python get-pip.py
Collecting pip
  Using cached pip-20.1.1-py2.py3-none-any.whl (1.5 MB)
Installing collected packages: pip
  Attempting uninstall: pip
    Found existing installation: pip 20.1.1
    Uninstalling pip-20.1.1:
      Successfully uninstalled pip-20.1.1
Successfully installed pip-20.1.1

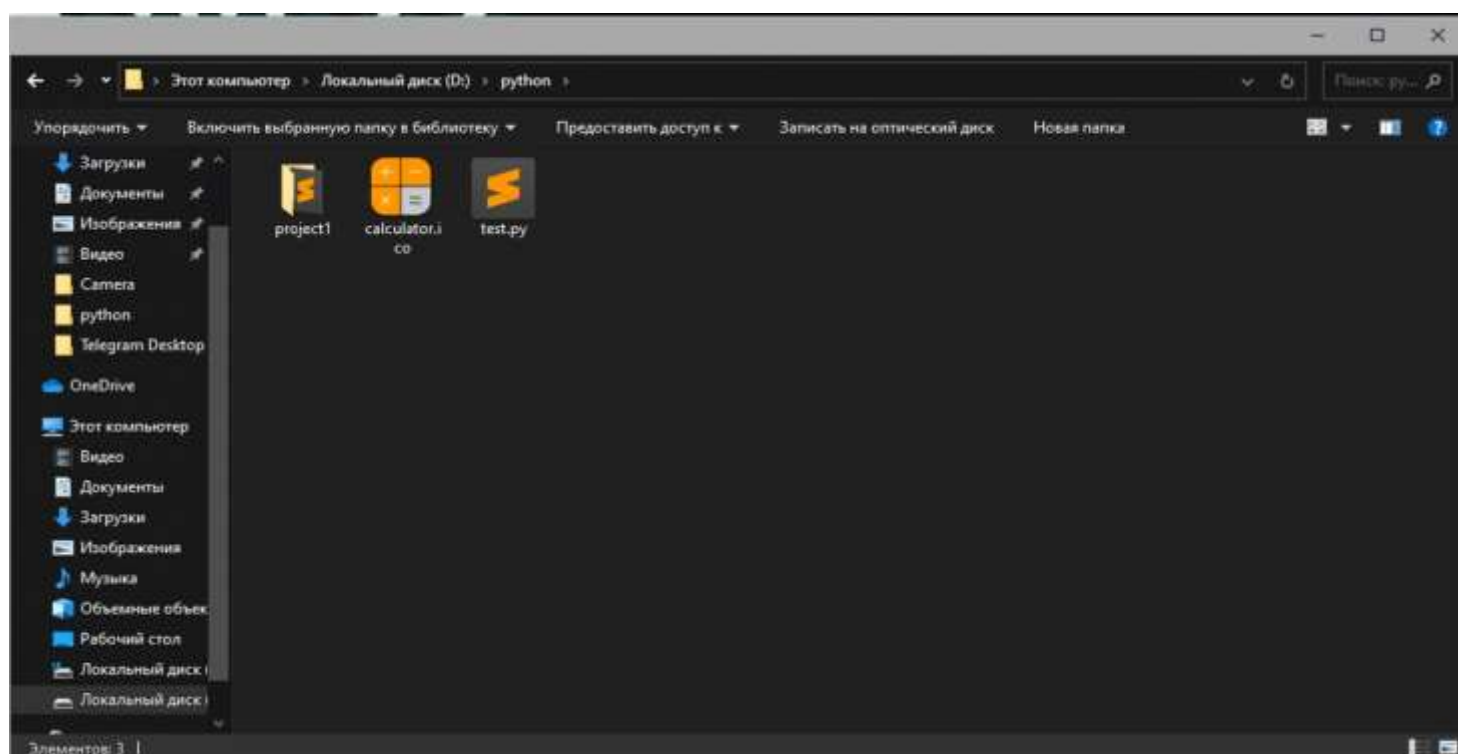
D:\python>_
```

Sizda yozuvlar boshqacharoq chiqadi, menda shunaqa bo'lganligi sababi menda pip allaqachon o'rnatilgan edi)

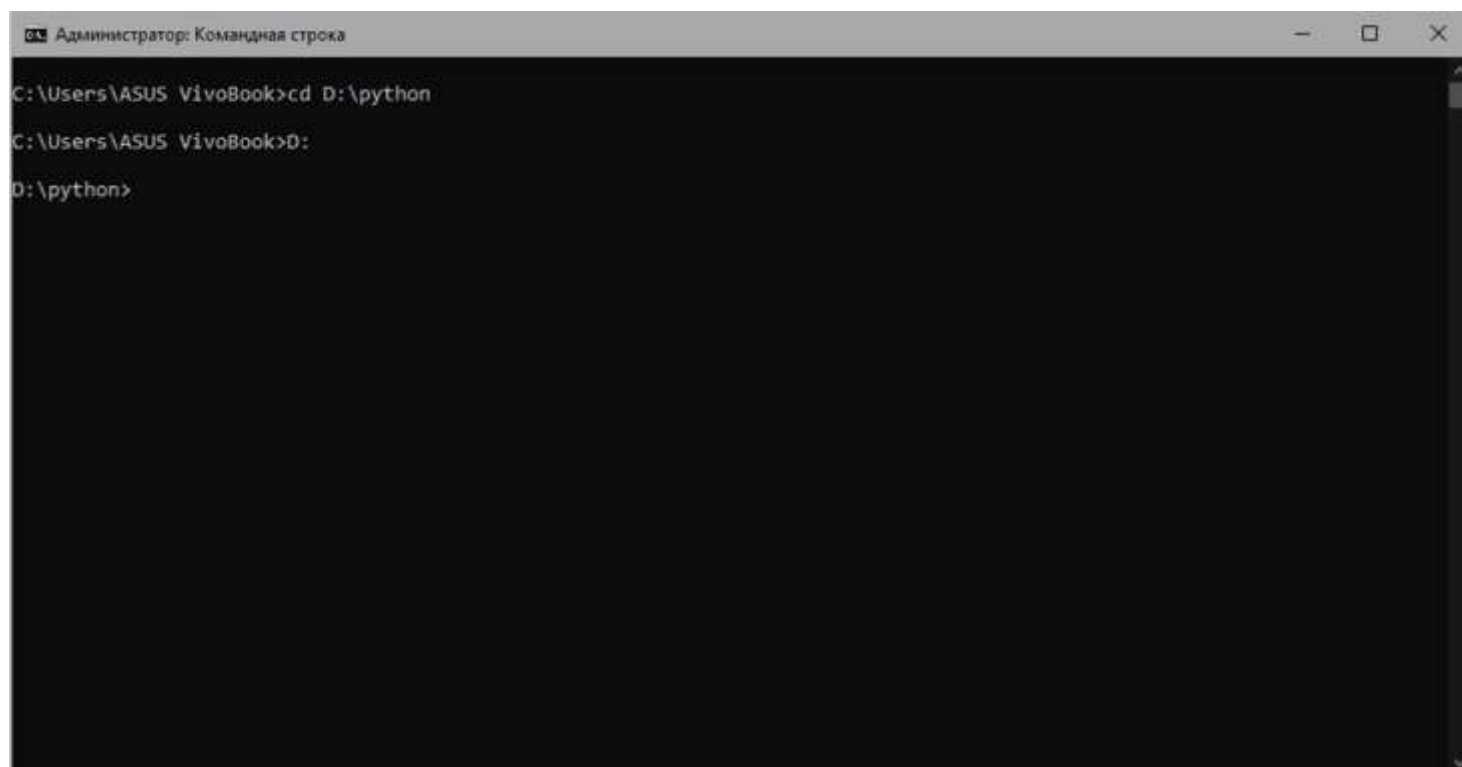
- Boshida siz **cd** deb yozib yoniga qaysi diskda joylashganligini yozasiz va " : " belgisini qo'yib [get-pip.py](#) fayli joylashgan yerga yo'l ko'rsatasiz. Menda, ushbu rasmda ko'rib turganingizdek **D** diskda joylashgan python fayliga yo'l yozdim.
- Keyingi xatorda yana qaysi diskda turganligini yozasiz va yoniga " : " belgisini qo'yasiz.
- Shularni bajarib bo'lgandan so'ng **python** va [get-pip.py](#) deb fayl nomini yozasiz.
- **Enterni** bosasiz

4. Shularni bajarganingizdan so'ng pip o'rnatiladi.

2. Demak pip va PyInstaller ni o'rnatganingizdan so'ng, dasturingiz joylashgan yerga yo'l yozasiz (qanday qilib yozishni bilmasangiz, bundan oldingni windows ga pip o'rnatish jarayonidan bilib olishingiz mumkin.)



Men bu yerda oddiy tkinter yordamida yaratgan kalkulyatorim va u uchun logotipni joylashtiridm



Mana fayllarimiz joylashgan yerga ham yo'lni yozdik.

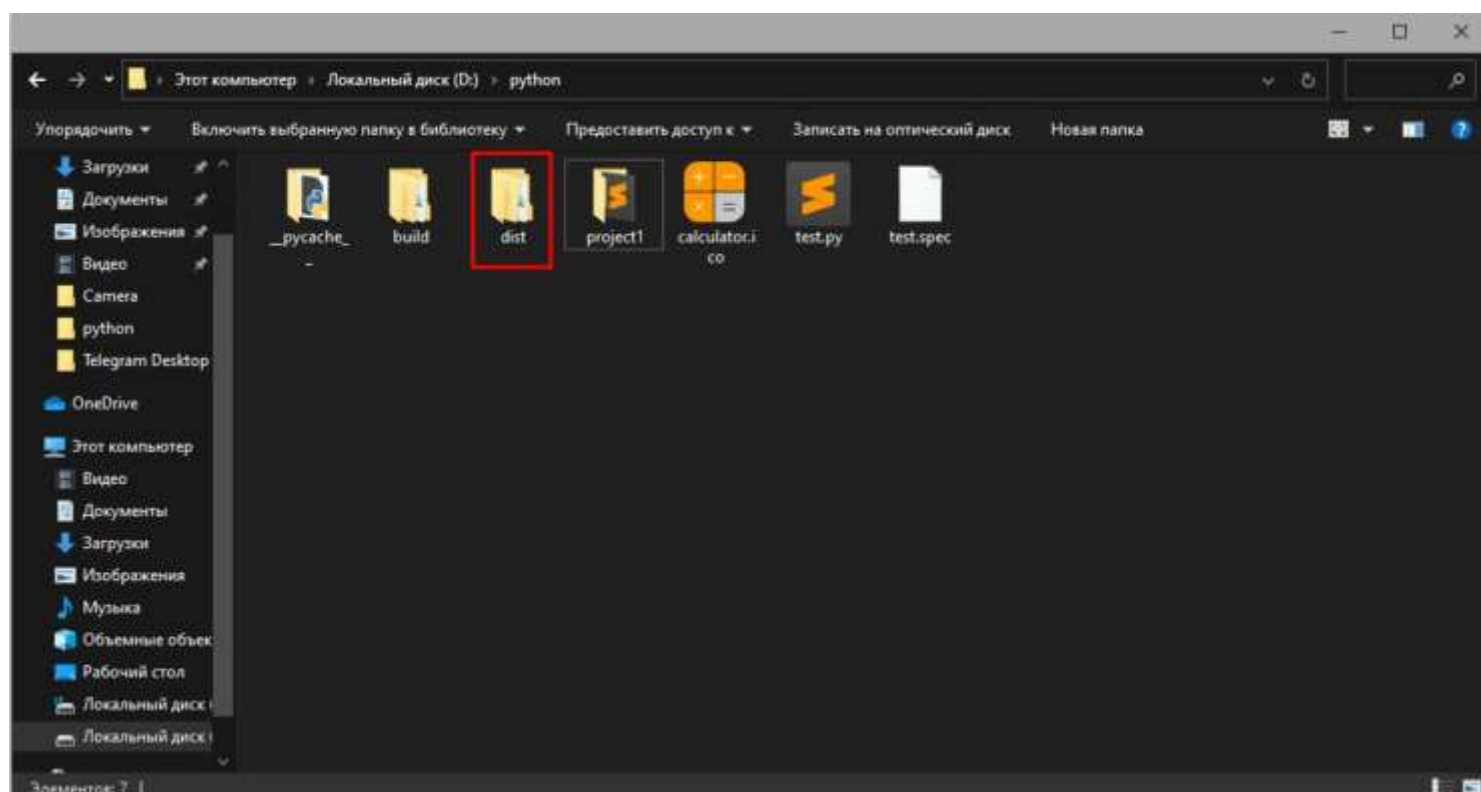
Endi esa, asosiy ishga o'tamiz..

3. **.py** faylni **.exe** faylga aylantirishni bir necha yo'li bor, barchasini birma bir ko'rib chiqamiz.

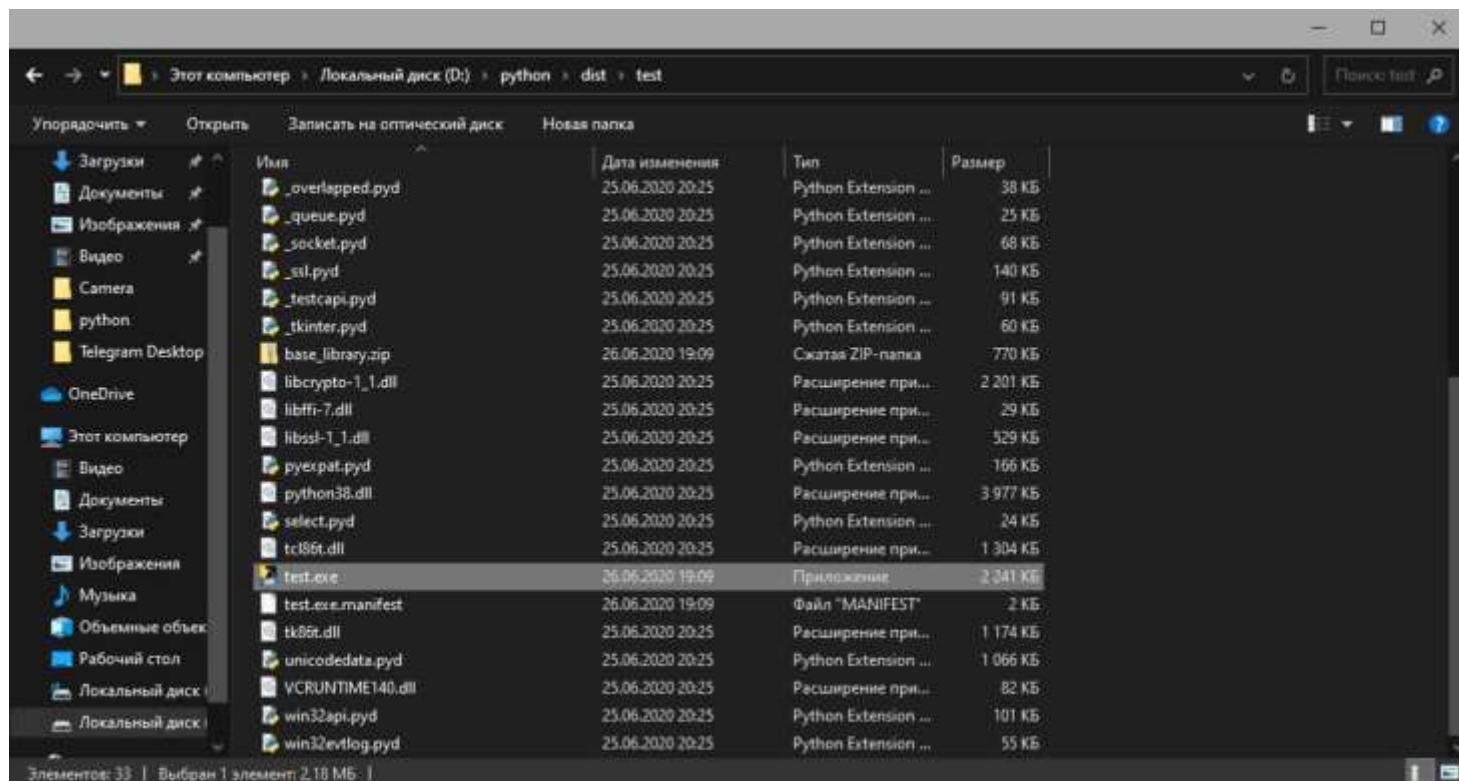
pyinstaller test.py

bu yerda "[test.py](#)" mening dasturimning nomi

Buni ishga tushurgandan so'ng, 10-15 soniya kutib turasiz, va natijada shunday fayllar hosil bo'ladi👉.



Bizga asosiy kerak bo'ladigani "dist" nomli fayl. Uning ichiga kirib dasturni topib ishga tushursangiz, dasturingiz .exe faylga aylanganini ko'rishingiz mumkin.

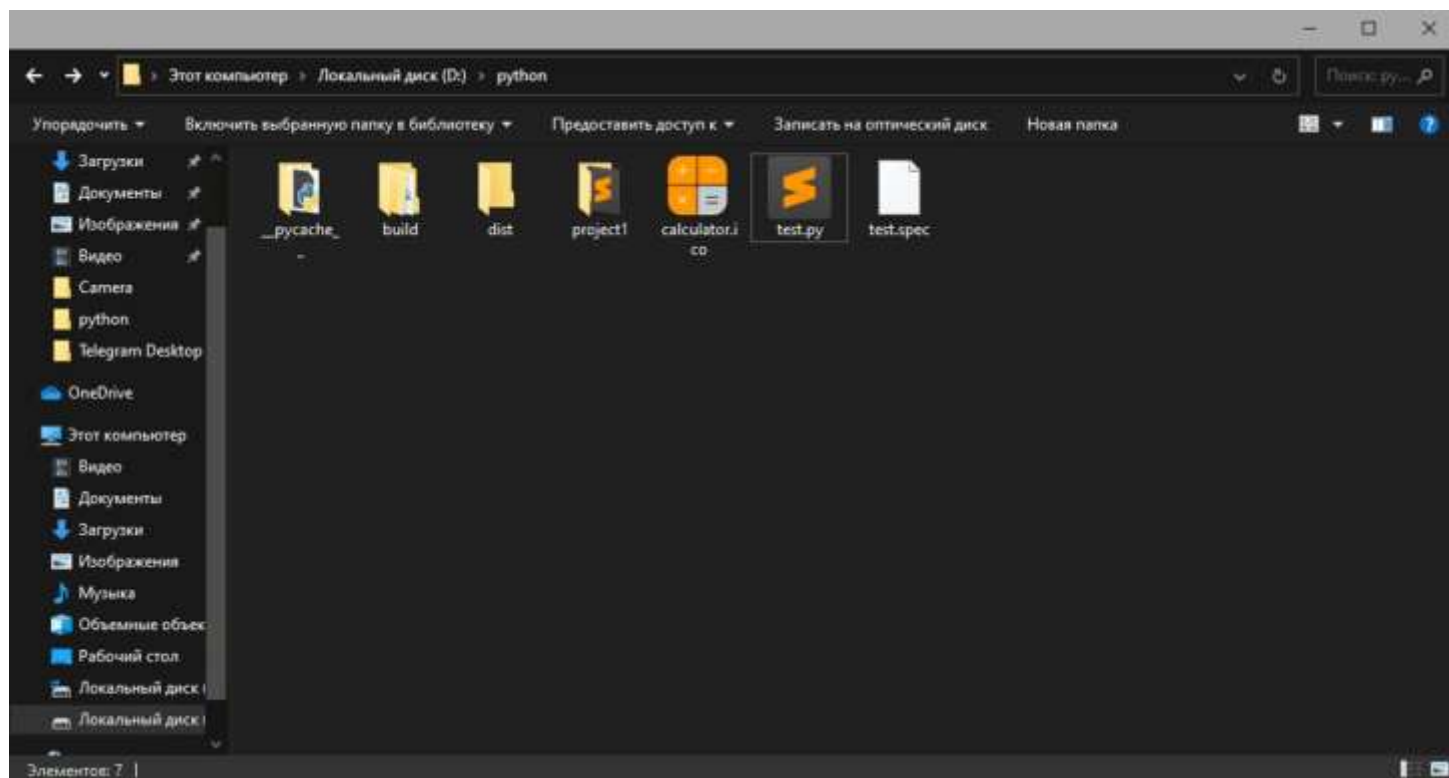


Mana bizning dasturimiz, uni ishga tushurib ko'rishingiz mumkin. Lekin ko'rib turganingizdek bu yerda boshqa fayllar ham joylashgan va uning logotipi o'rnatilmagan.

Bularning hammasini yechimini maqolaning davomida bilib olasiz.

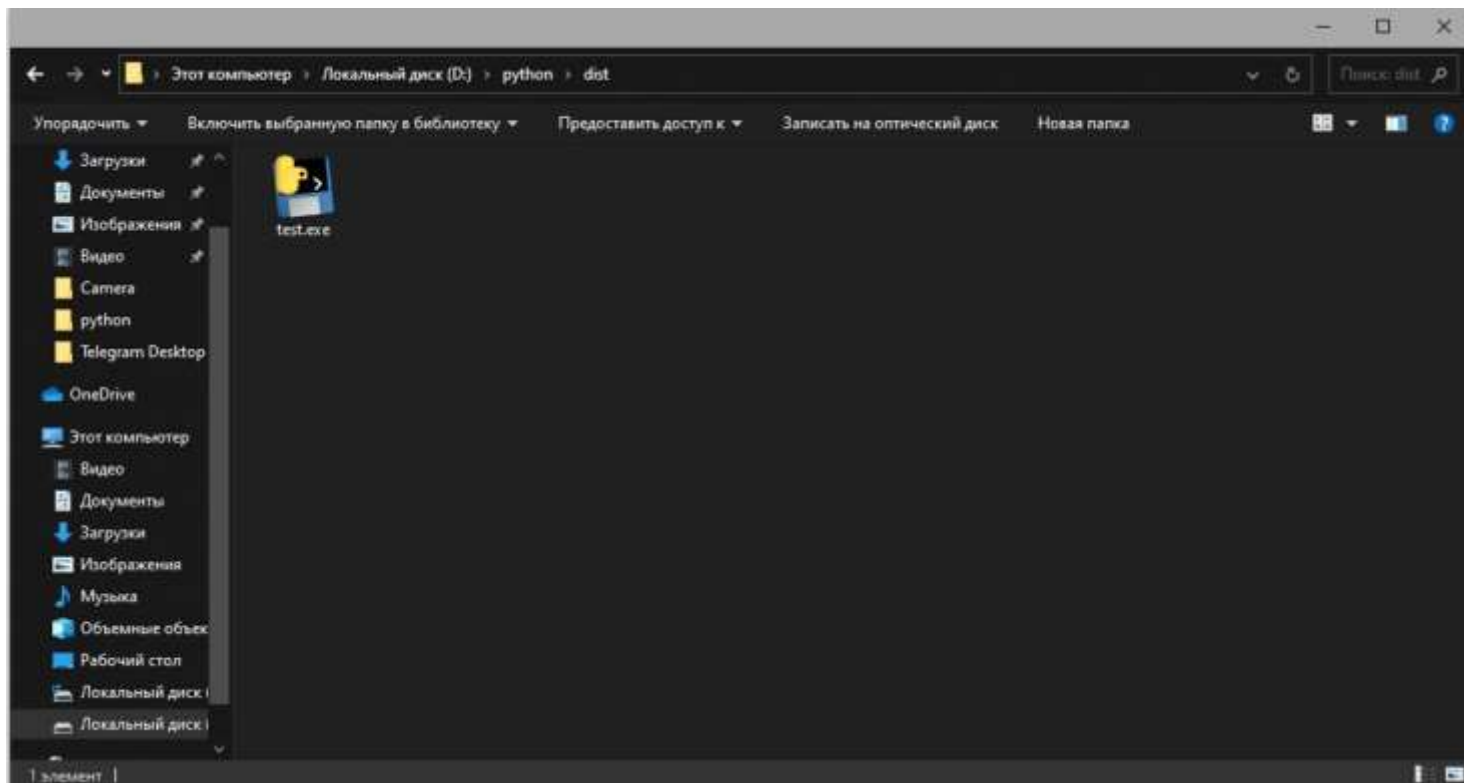
```
pyinstaller -F test.py
```

Bunday kod bilan siz barcha fayllarni bitta faylga aylantirishingiz mumkin.



"dist" faylidan tashqari qolgan barcha fayllarni o'chirib tashlashingiz mumkin

Agar u yerdagi fayllarga kirib ko'rsangiz faqat bitta sizning dasturingiz joylashganini ko'rishingiz mumkin.



Endi keling, dasturimizga logotip o'rnatish.

```
pyinstaller -i "D:\python\calculator.ico" test.py
```

Bunday kod bilan siz dasturingizga logotip o'rnatish.

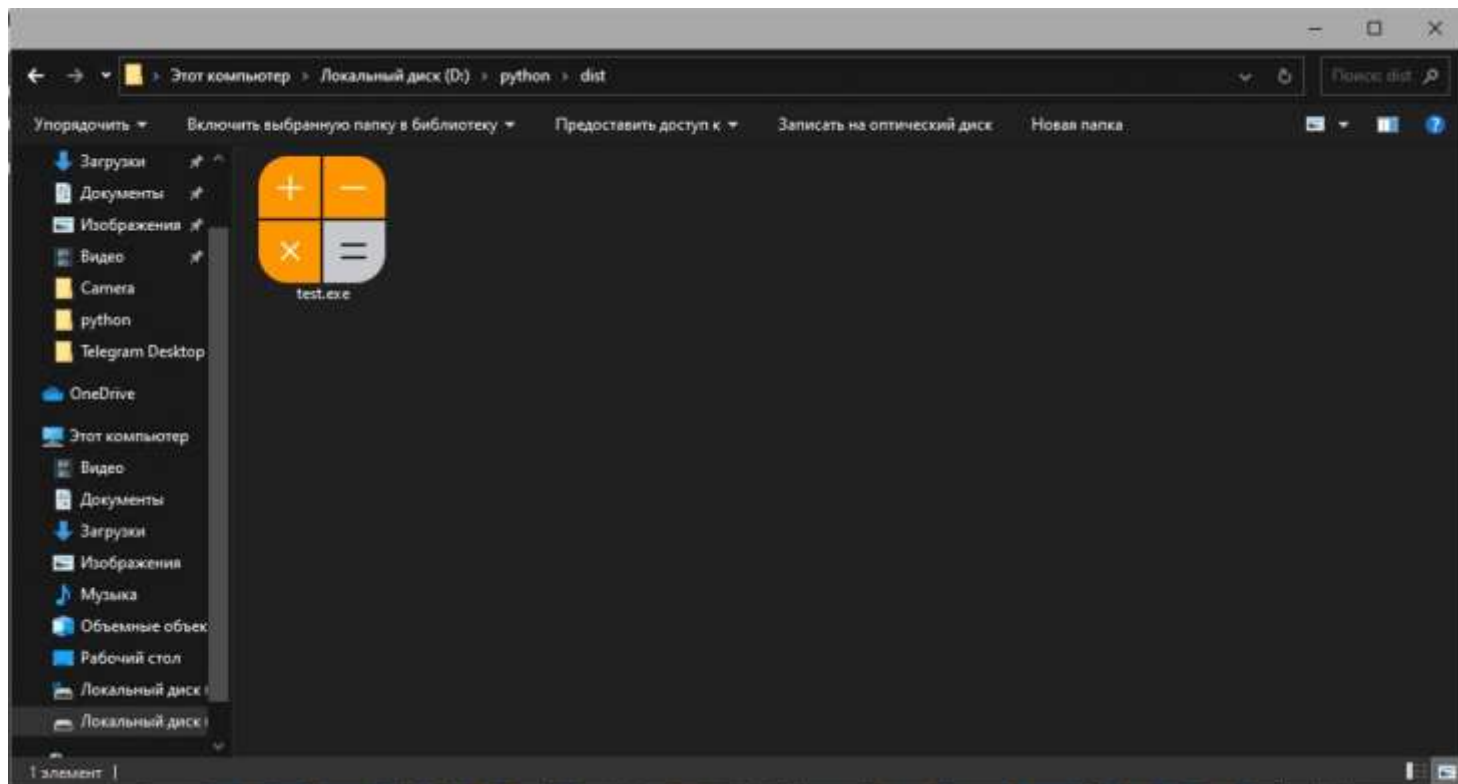
-i "<sizning logotipingizga yo'l>" tarzida yozasiz.

Logotipingiz **.ico** formatida bo'lishiga ham e'tibor bering. Agar qanday qilib shunday logotiplarni olishni bilmasangiz, mana [shu havola](http://www.iconarchive.com/) <http://www.iconarchive.com/> orqali ularni yuklab olishingiz mumkin.

Yana bir narsani aytib o'tishim kerakki, siz bunday qilib fayllarni bitta faylga jamlamaysiz, buni qilish uchun esa shu tarzda yozishingiz kerak bo'ladi:

```
pyinstaller -F -i "D:\python\calculator.ico" test.py
```

Shunday qilib, siz barcha fayllarni bittasiga jamlab, dasturingizga logotip ham o'rnatgan bo'lasiz.



Mana bizning dasturimiz

Qolgan fayllarni esa o'chirib tashlasangiz ham bo'ladi.

Agar sizning dasturingiz **tkinter** yoki shunga o'xshashda yaratilmagan bo'lsa, maqolaning shu yerida tugatishingiz mumkin, chunki sizning kodingiz **cmd**da paydo bo'ladi.

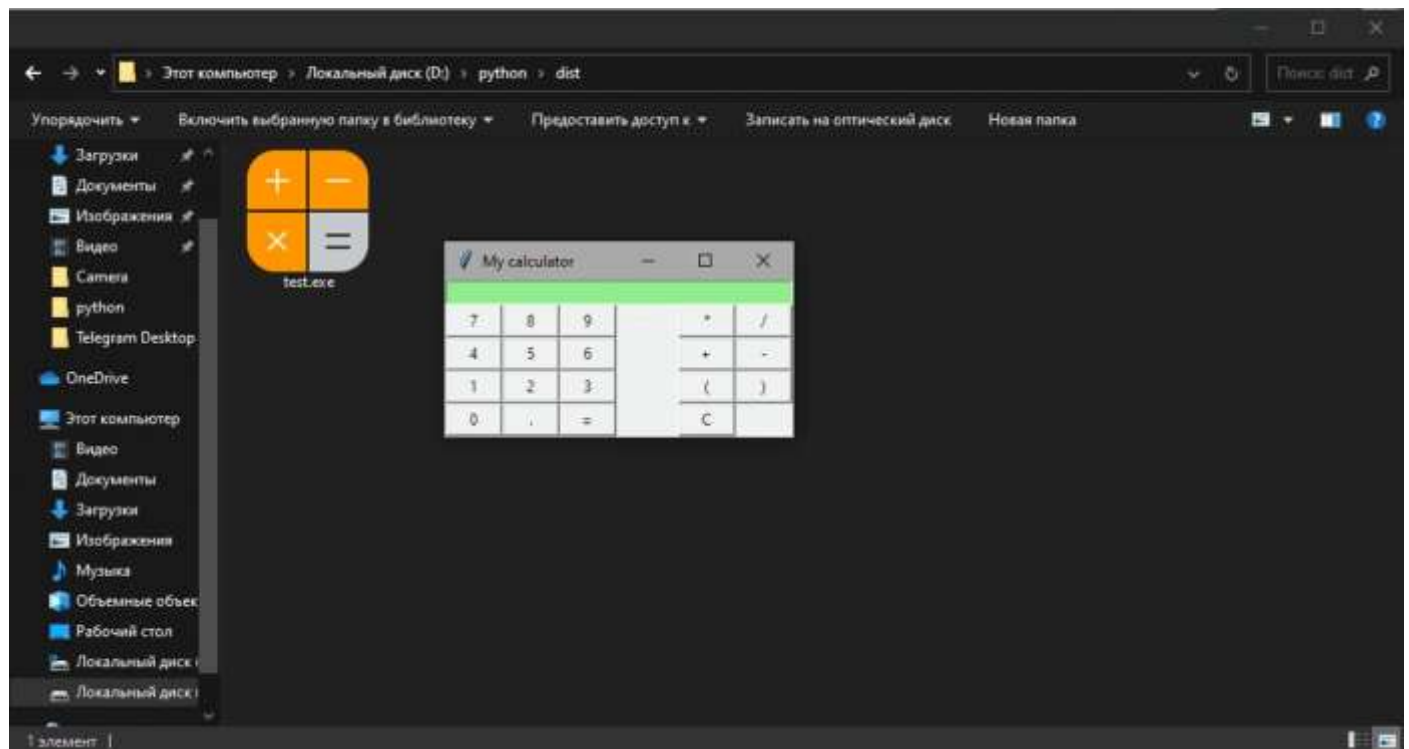
Agar menikiga o'xshab **tkinter** yordamida yaratilgan bo'lsa, va siz **cmd**ni ko'rsanib turishini xohlamasangiz, bu kod siz uchun 🖱

```
pyinstaller -F -w -i "D:\python\calculator.ico" test.py
```

```
Администратор: Командная строка

D:\python>pyinstaller -F -w -i "D:\python\calculator.ico" test.py
124 INFO: PyInstaller: 3.6
125 INFO: Python: 3.8.3
125 INFO: Platform: Windows-10-10.0.19041-SP0
127 INFO: wrote D:\python\test.spec
129 INFO: UPX is not available.
132 INFO: Extending PYTHONPATH with paths
['D:\python', 'D:\python']
133 INFO: checking Analysis
133 INFO: Building Analysis because Analysis-00.toc is non existent
133 INFO: Initializing module dependency graph...
137 INFO: Caching module graph hooks...
157 INFO: Analyzing base_library.zip ...
4303 INFO: Processing pre-find module path hook distutils
4304 INFO: distutils: retargeting to non-venv dir 'c:\users\asus vivobook\appdata\local\programs\python\python38-32\lib'
8689 INFO: Caching module dependency graph...
8897 INFO: running Analysis Analysis-00.toc
8901 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by c:\users\asus vivobook\appdata\local\programs\python\python38-32\python.exe
9047 INFO: Analyzing D:\python\test.py
9053 INFO: Processing module hooks...
9054 INFO: Loading module hook "hook-distutils.py"...
9057 INFO: Loading module hook "hook-encodings.py"...
9223 INFO: Loading module hook "hook-lib2to3.py"...
9232 INFO: Loading module hook "hook-pydoc.py"...
9234 INFO: Loading module hook "hook-sysconfig.py"...
9236 INFO: Loading module hook "hook-xml.etree.cElementTree.py"...
9238 INFO: Loading module hook "hook-xml.py"...
```


Bu kodni qo'shganingizdan so'ng sizda **cmd** ko'rinmaydi.



Xulosa:

Biz bu maqoladan qanday qilib .py faylni .exe faylga logotip bilan o'tkazishni o'rgandik

Agar sizga maqolam yoqqan bo'lsa men xursandman!

Maqola muallifi: Asadbek Riziev