Uvod u Python programski jezik (Python 3)

Autor: Milenko Letic

https://programiranje.ba

Sadrzaj

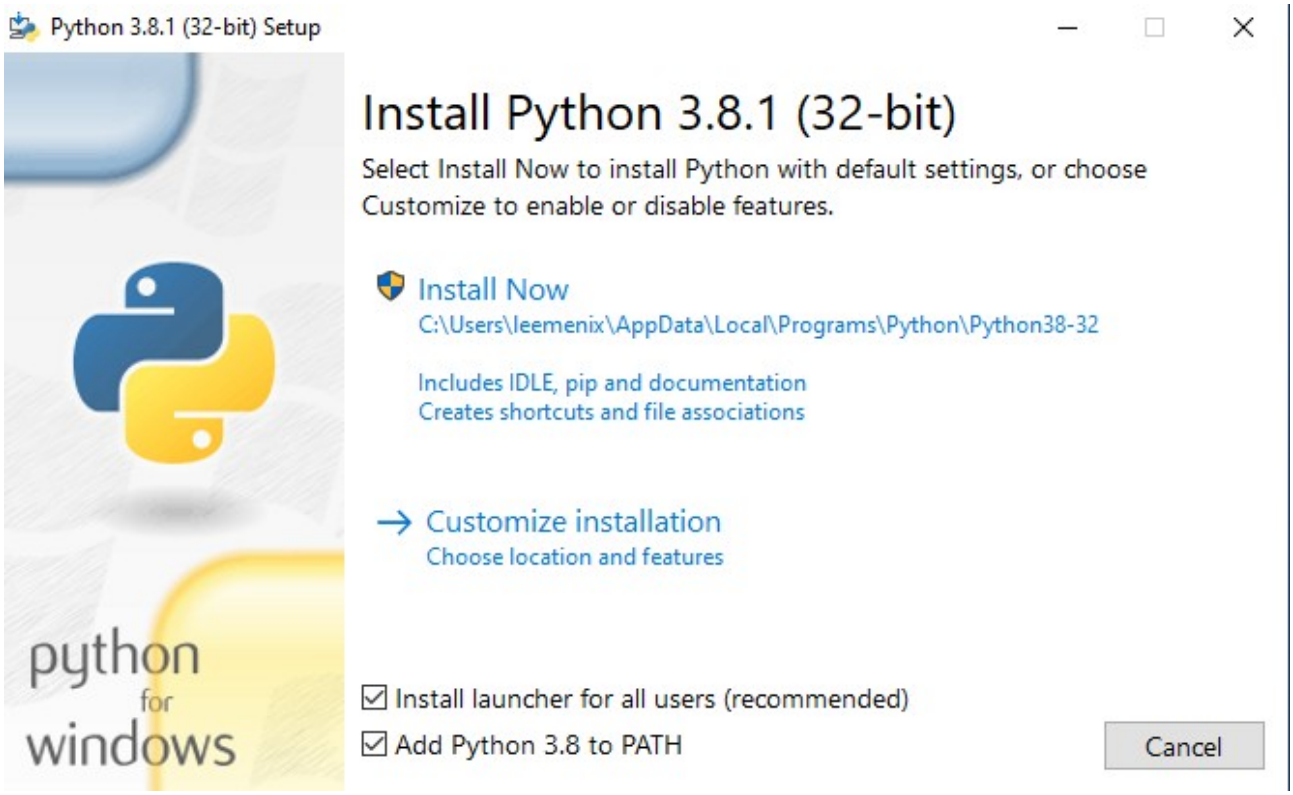
Uvod u Python programski jezik (Python 3).....1
Instalacija i podesavanje Python-a i PyCharm-a.....3
Python 3 instalacija.....3
Tekst editor.....6
PyCharm instalacija.....7
Prvi program "Zdravo svijete!".....15
Varijable.....19

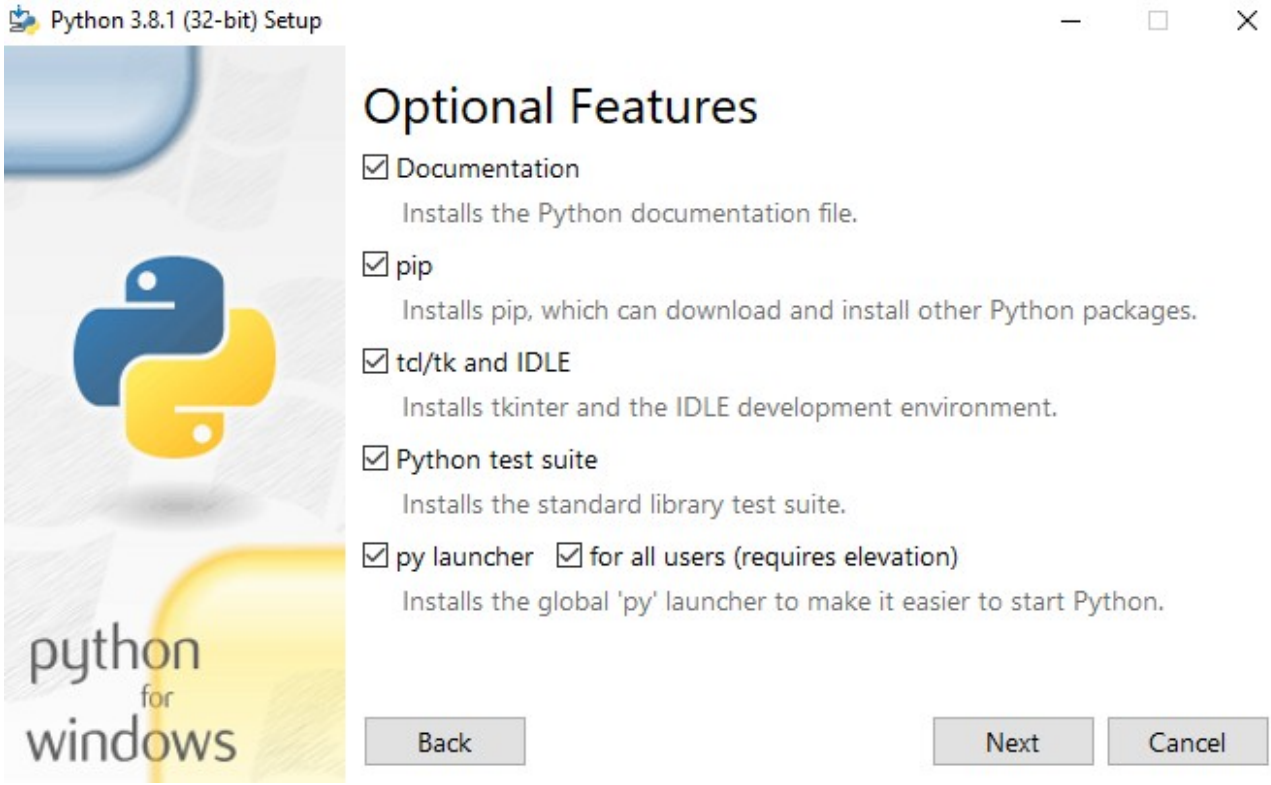
Instalacija i podesavanje Python-a i PyCharm-a

https://python.org/downloads

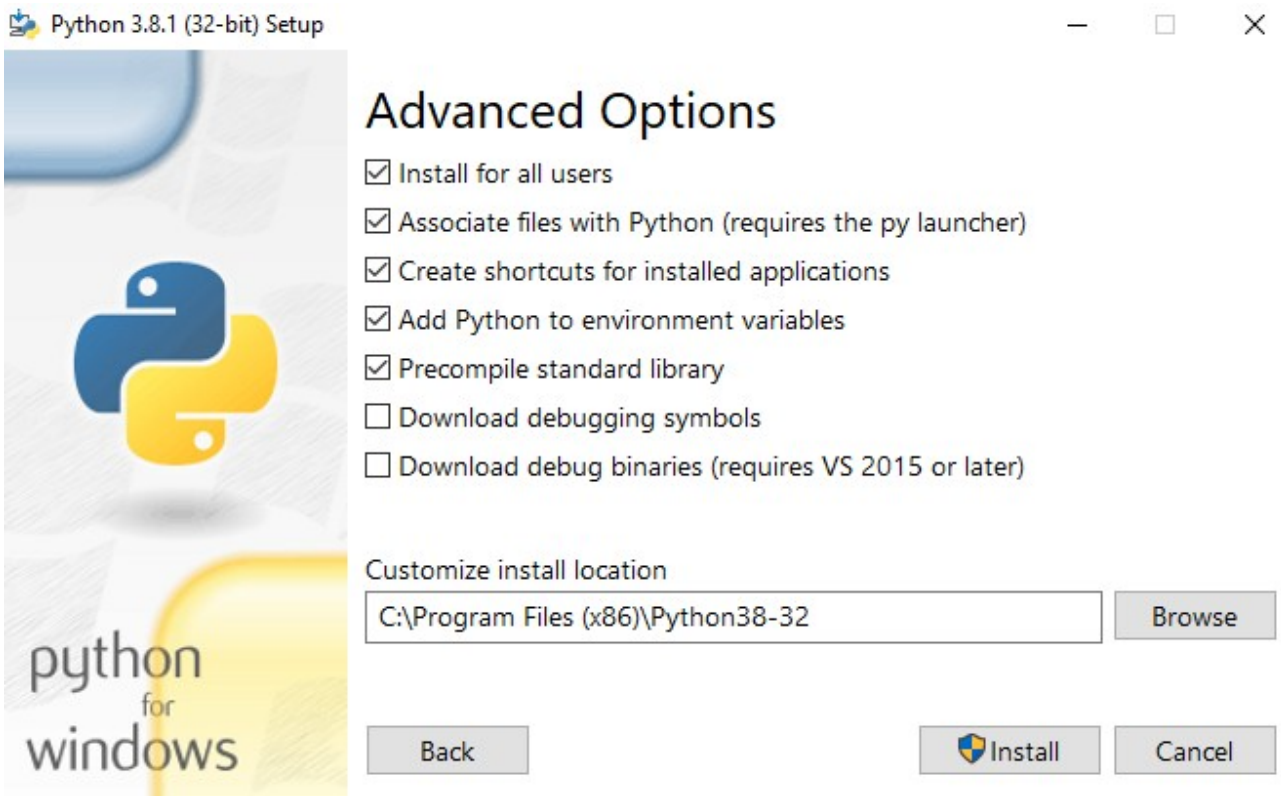
Dvije verzije Python-a, Python 2 "legacy" verzija i Python 3 trenutna verzija koju cemo obraditi tokom ovog kursa.

Python 3 instalacija

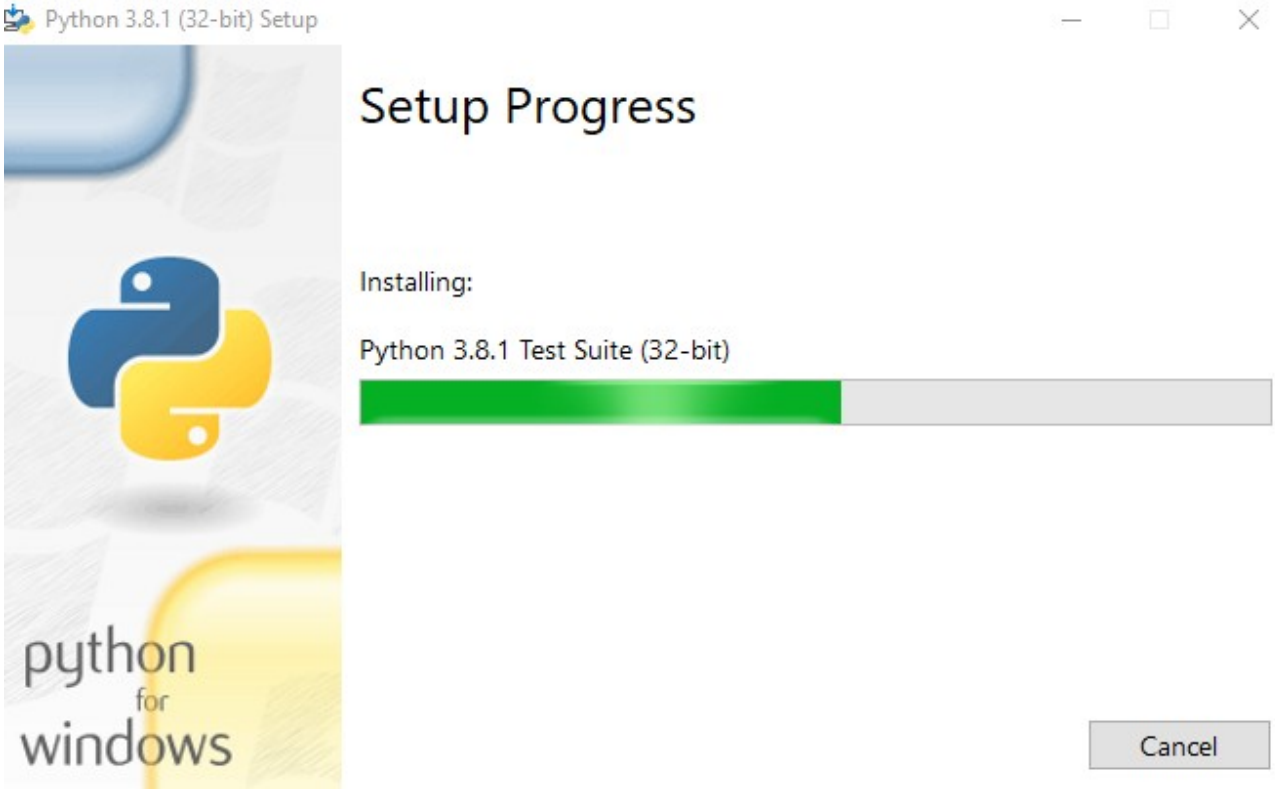

Python 3.8.1 (32-bit) Setup
Install Python 3.8.1 (32-bit)
Select Install Now to install Python with default settings, or choose
Customize to enable or disable features.
Install Now
C:\Users\leemenix\AppData\Local\Programs\Python\Python38-32
Includes IDLE, pip and documentation
Creates shortcuts and file associations
Customize installation
Choose location and features
python
for
windows
Install launcher for all users (recommended)
Add Python 3.8 to PATH
Cancel

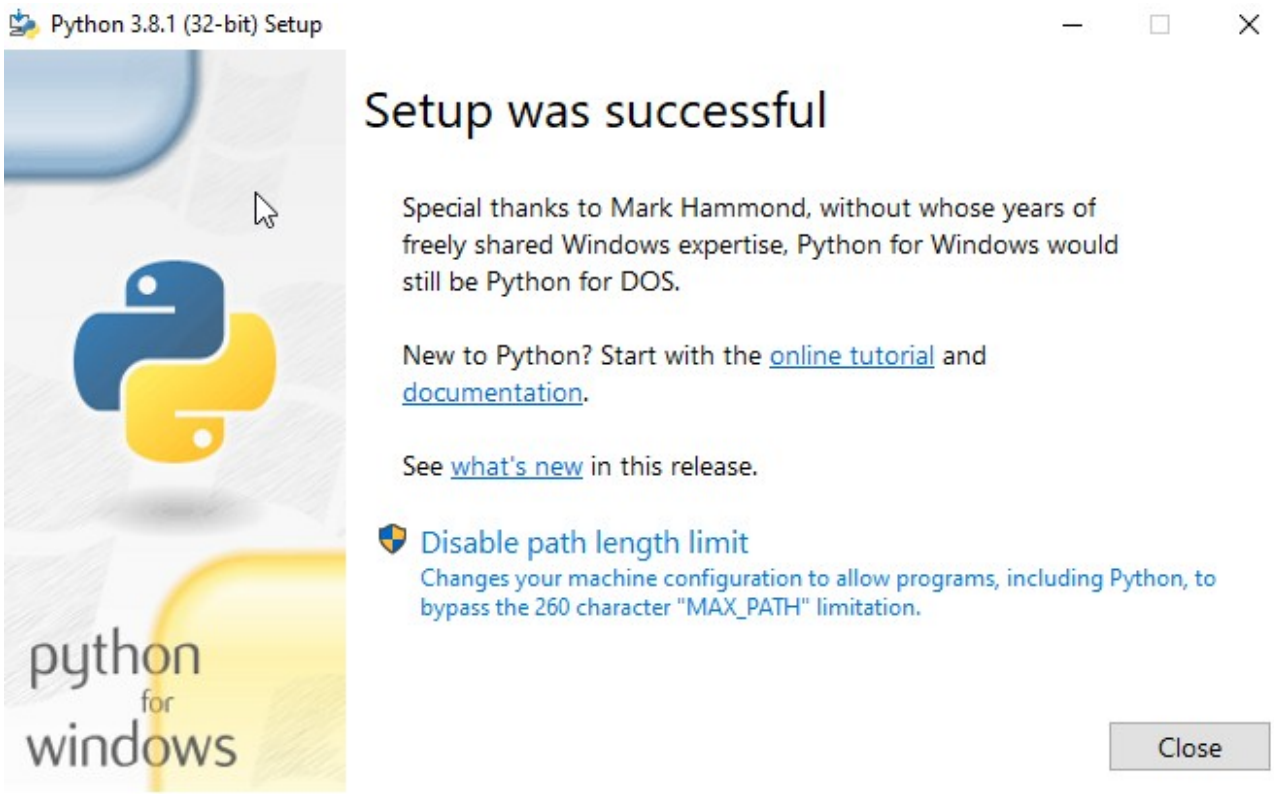

Python 3.8.1 (32-bit) Setup
Optional Features
Documentation
Installs the Python documentation file.
pip
Installs pip, which can download and install other Python packages.
tcl/tk and IDLE
Installs tkinter and the IDLE development environment.
Python test suite
Installs the standard library test suite.
py launcher
for all users (requires elevation)
Installs the global 'py' launcher to make it easier to start Python.
python
for
windows
Back
Next
Cancel

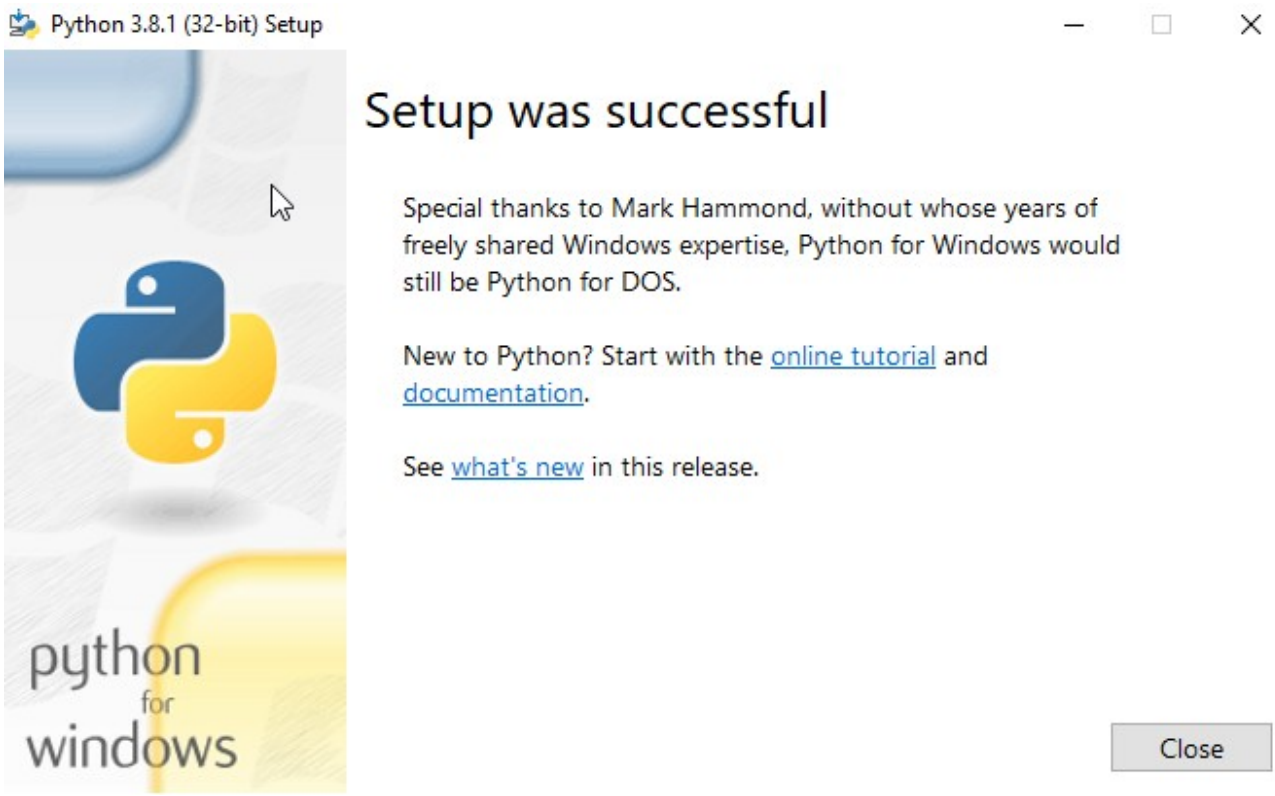
Next



Install
[if OS Windows ask for confirmation confirm with yes]





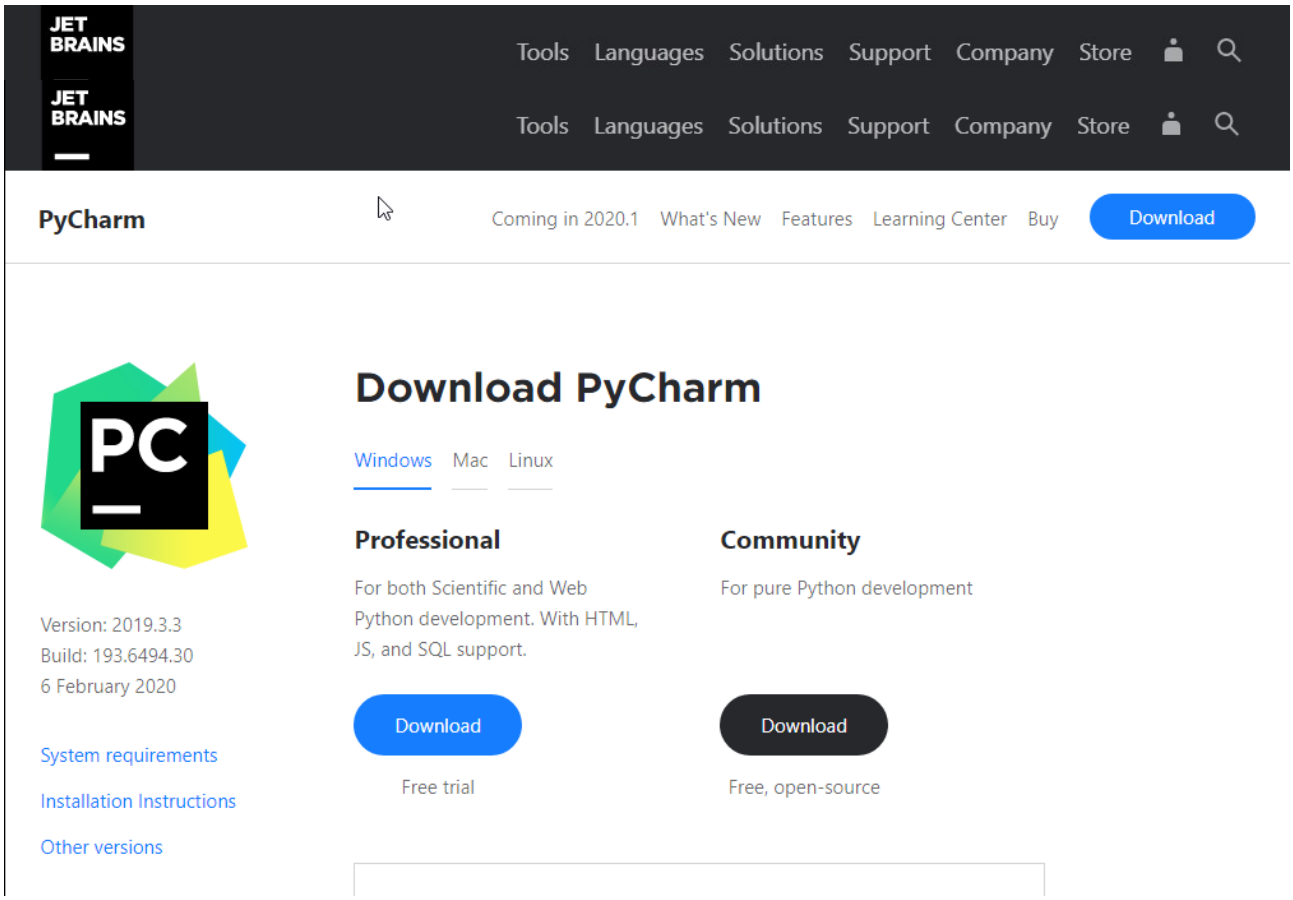


Tekst editor

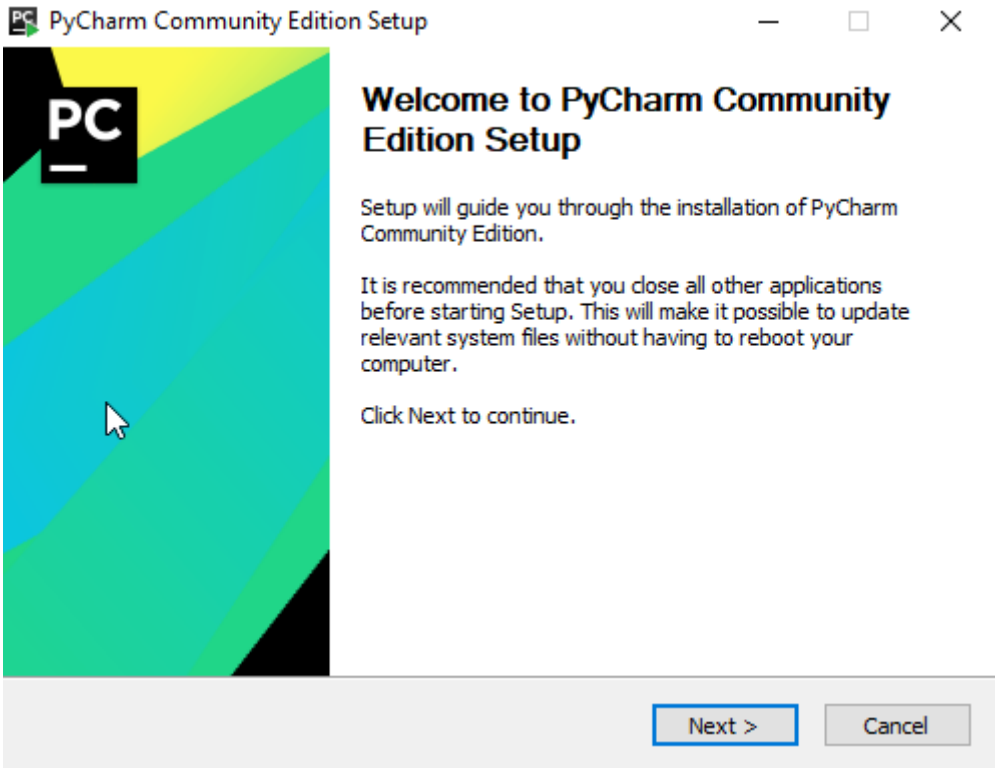
[IDE] – Integreted Development Environment

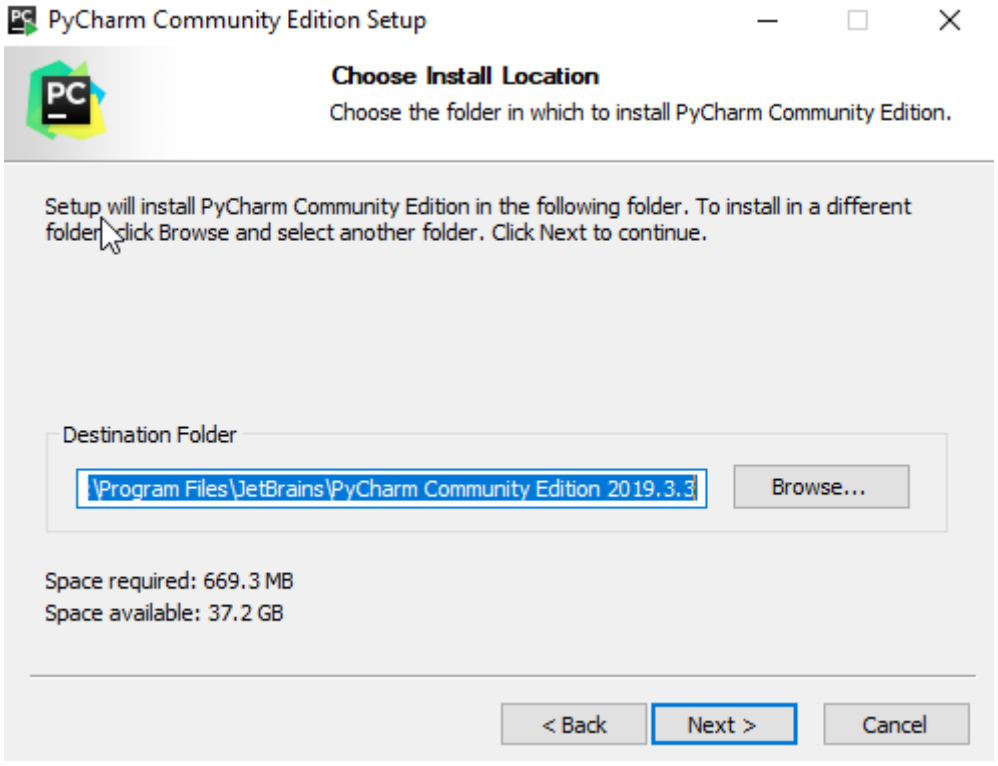
PyCharm instalacija

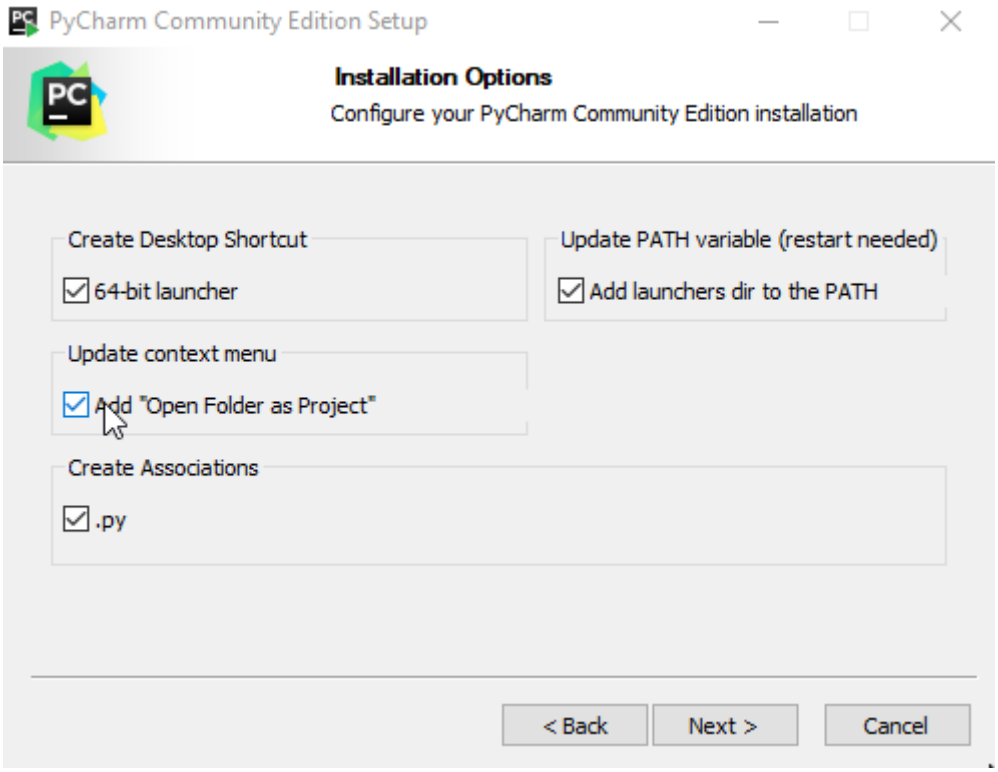
https://jetbrains.com/pycharm/download



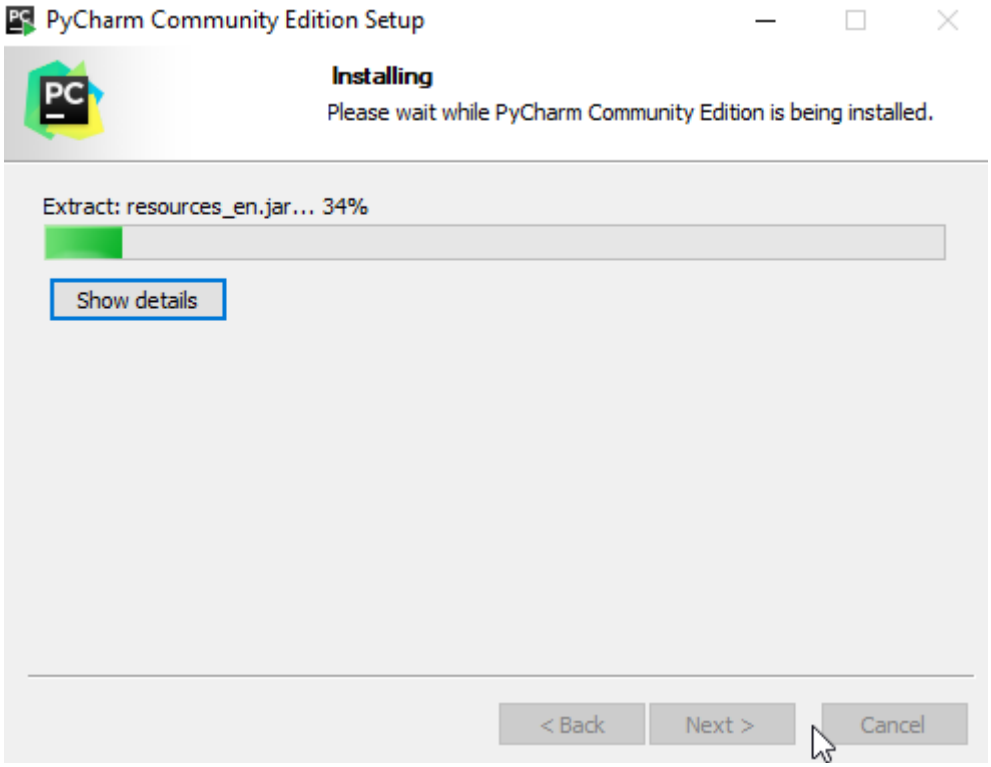
Izaberi "Community"

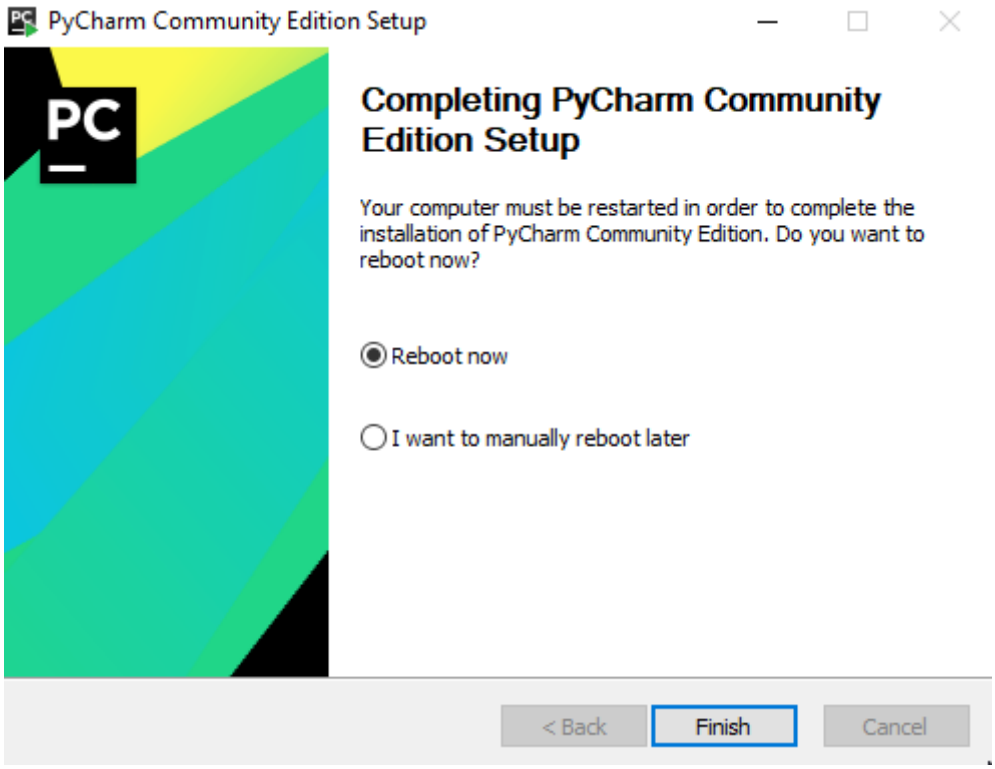

PyCharm Community Edition Setup
Welcome to PyCharm Community Edition Setup
Setup will guide you through the installation of PyCharm Community Edition.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel


PyCharm Community Edition Setup
Choose Install Location
Choose the folder in which to install PyCharm Community Edition.
Setup will install PyCharm Community Edition in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
\Program Files\JetBrains\PyCharm Community Edition 2019.3.3
Browse...
Space required: 669.3 MB
Space available: 37.2 GB
< Back
Next >
Cancel

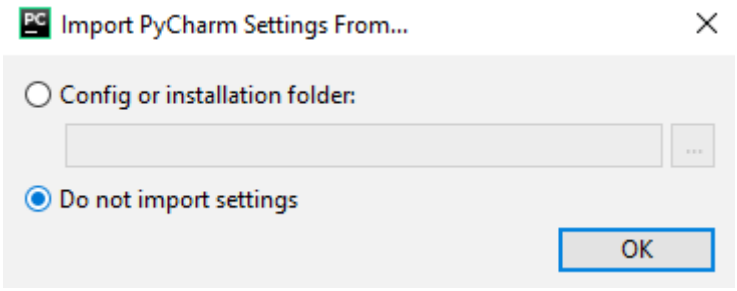


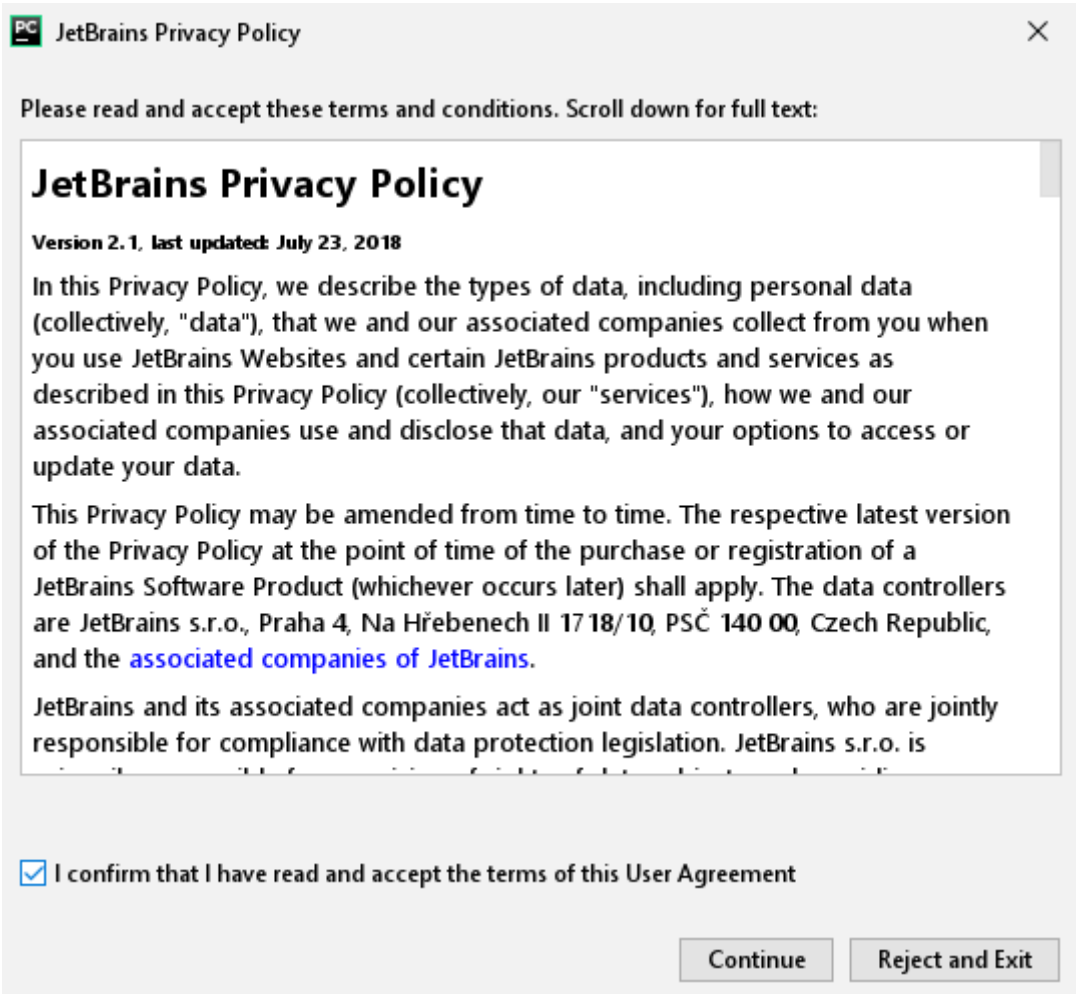
Na slececem ekrenu kliknite "Install"





Nakon restarta pokrenemo PyCharm i konfigurisemo minimalna podesavanja

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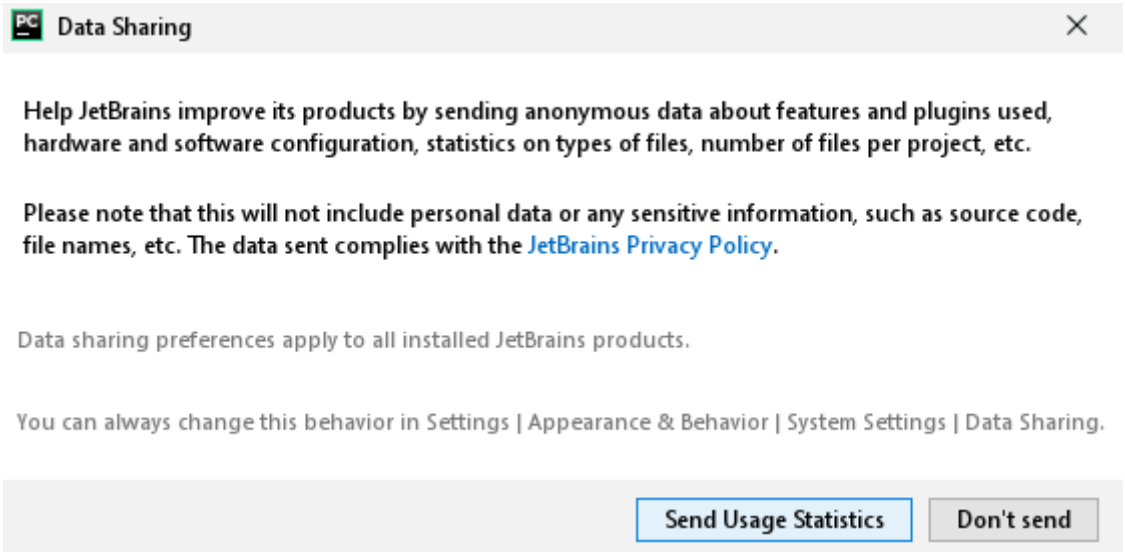
Continue
Reject and Exit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Help JetBrains improve its products by sending anonymous data about features and plugins used, hardware and software configuration, statistics on types of files, number of files per project, etc.
Please note that this will not include personal data or any sensitive information, such as source code, file names, etc. The data sent complies with the JetBrains Privacy Policy.
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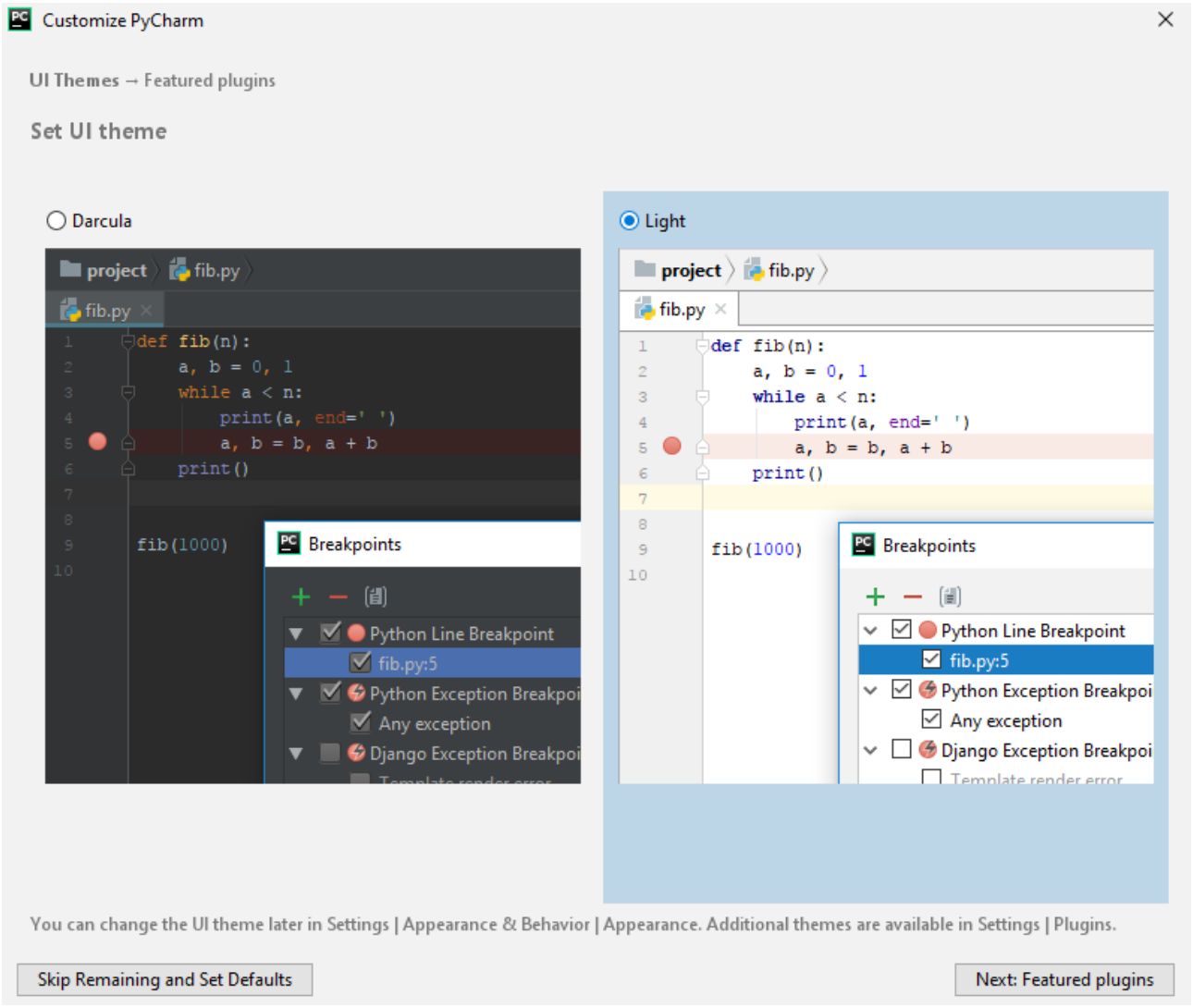
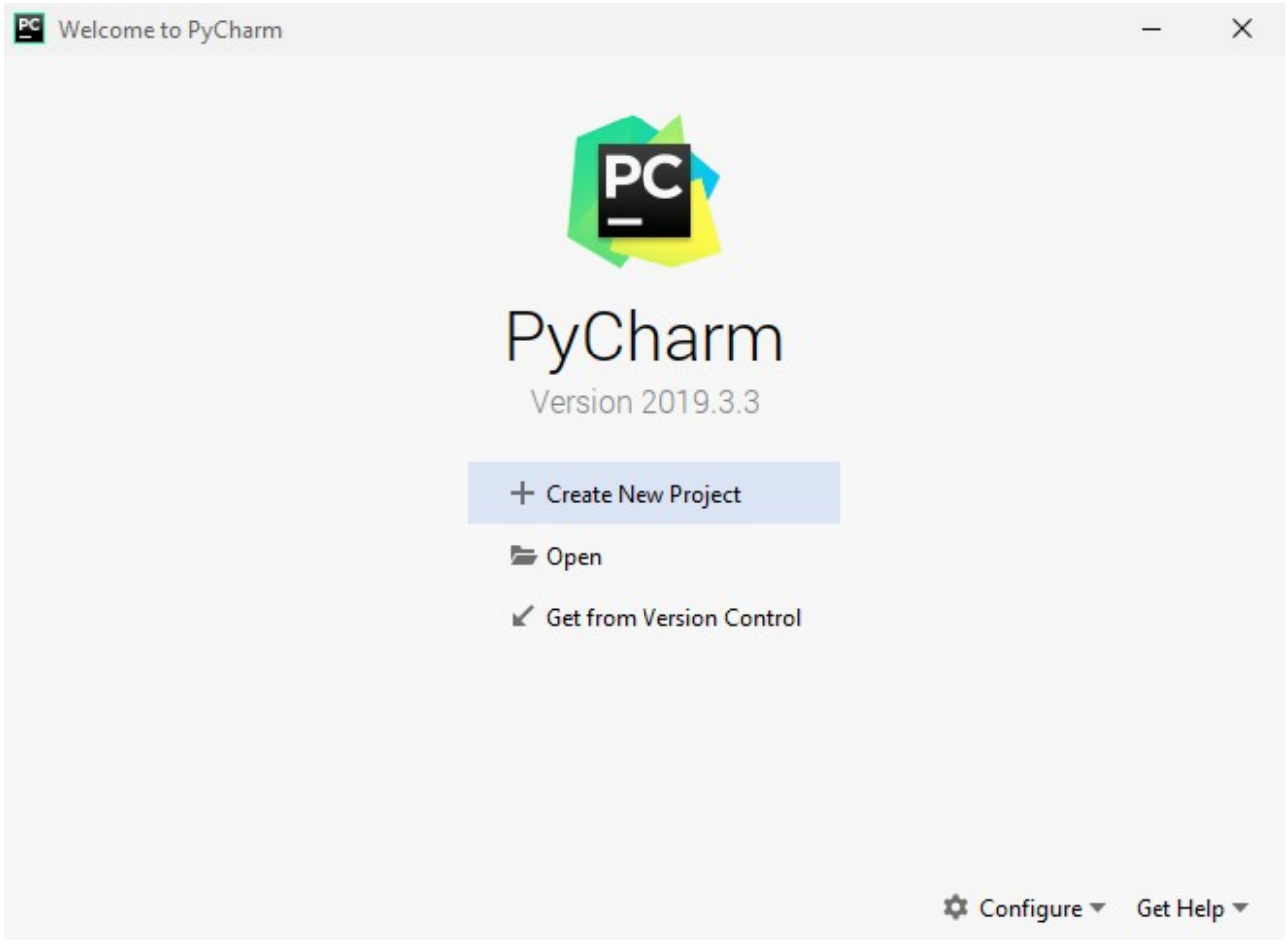
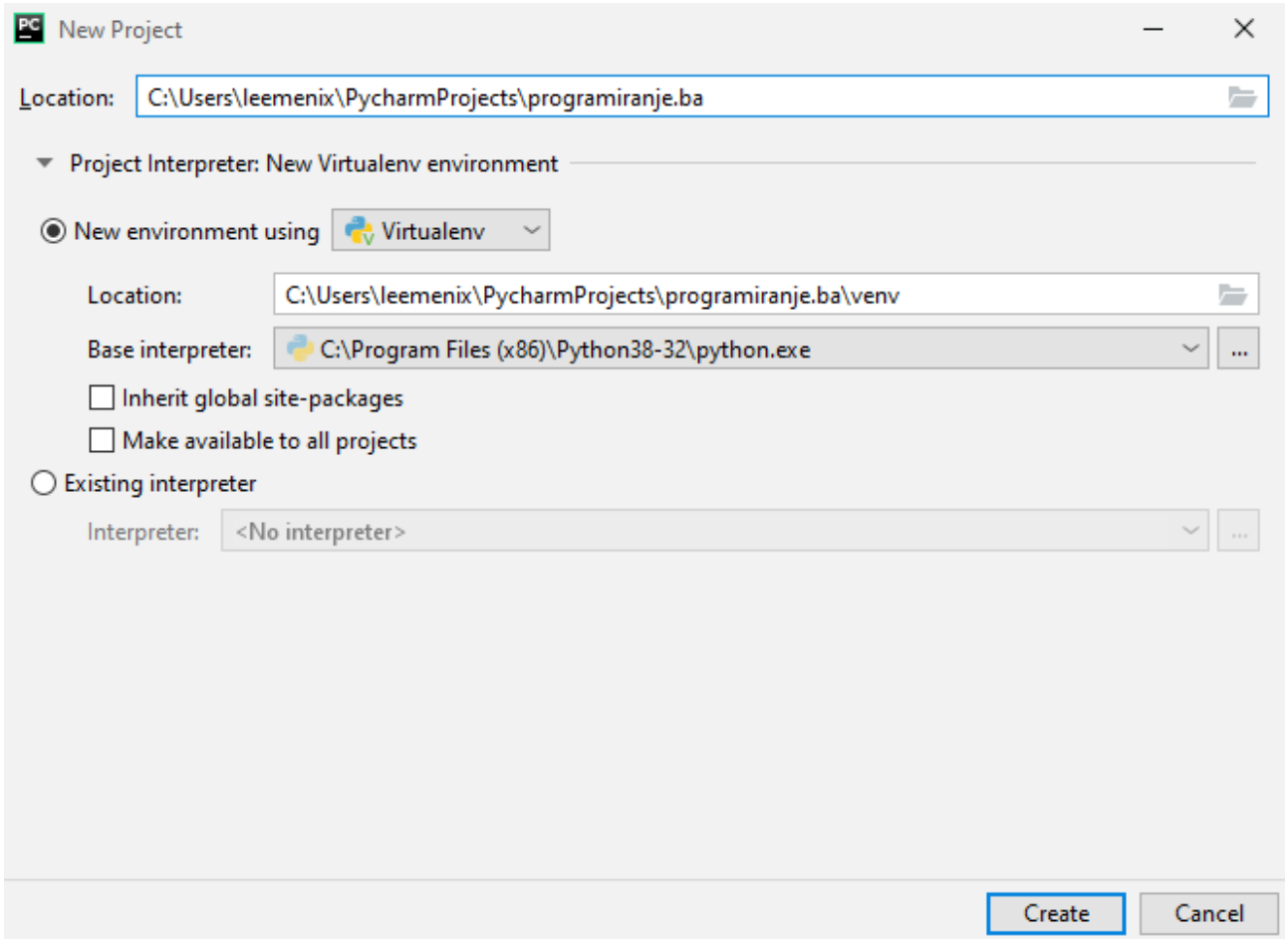
Send Usage Statistics
Don't send

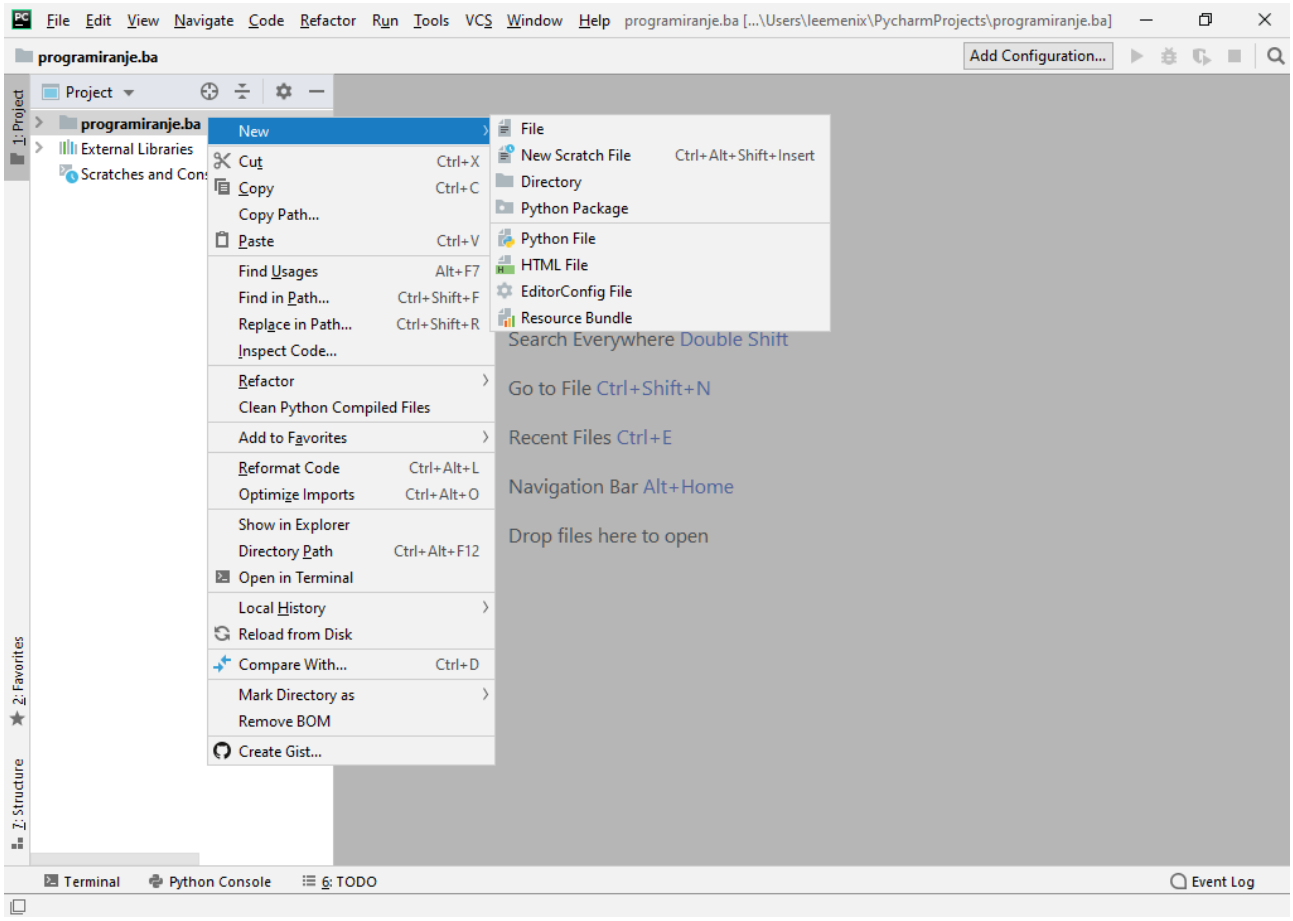

Customize PyCharm
UI Themes → Featured plugins
Set UI theme
Darcula
Light
project
fib.py
def fib(n):
a, b = 0, 1
while a < n:
print(a, end=' ')
a, b = b, a + b
print()
fib(1000)
Breakpoints
Python Line Breakpoint
fib.py:5
Python Exception Breakpoi
Any exception
Django Exception Breakpoi
You can change the UI theme later in Settings | Appearance & Behavior | Appearance. Additional themes are available in Settings | Plugins.
Skip Remaining and Set Defaults
Next: Featured plugins

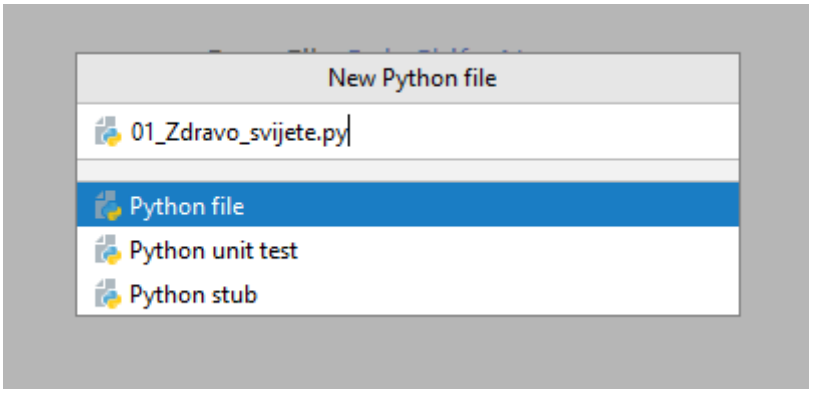


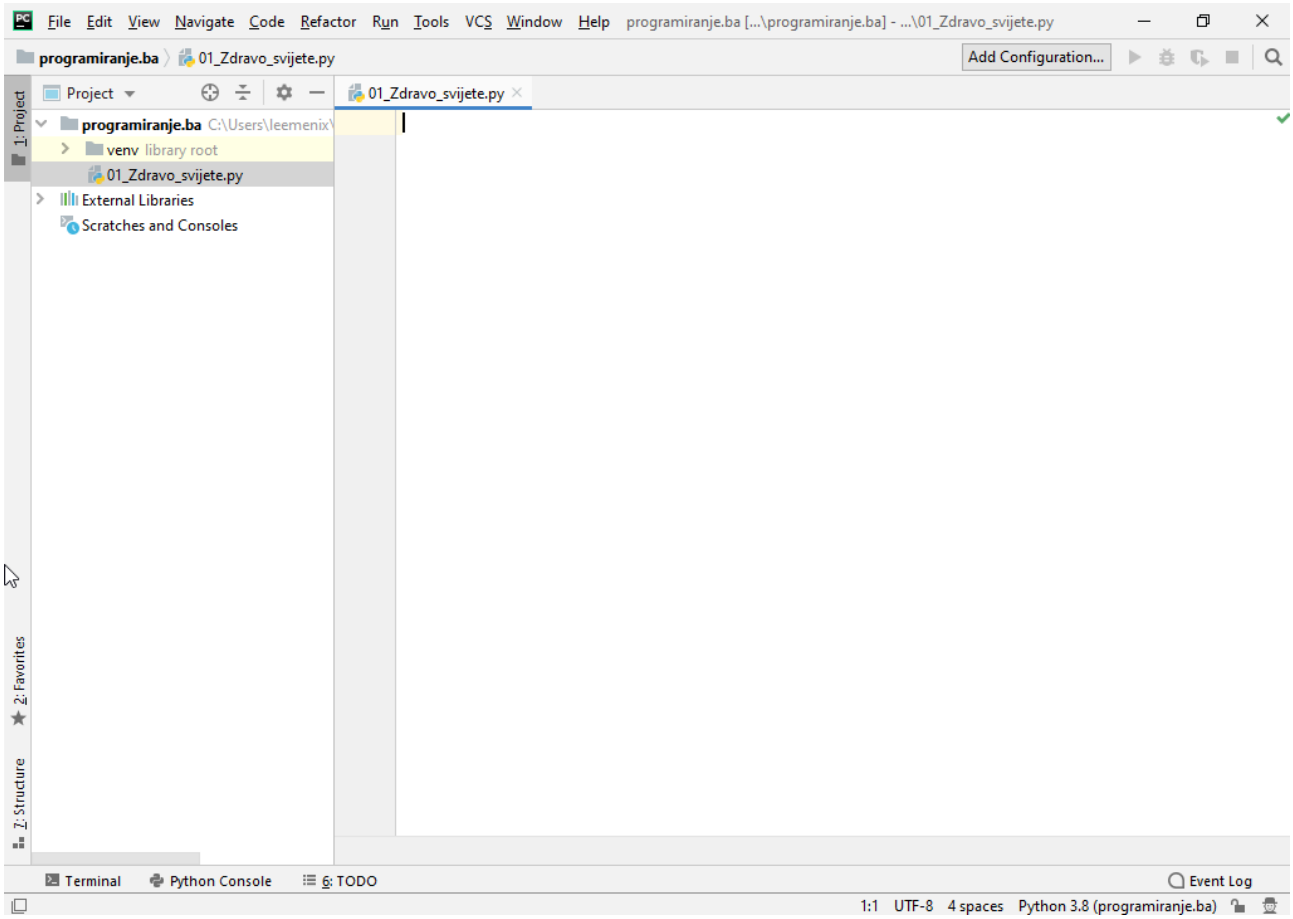
Kliknite na Project interpreter i podesite Base interpreter
[vrijednost moze varirati u zavisnosti od vaseg OS-a]


New Project
Location:
C:\Users\leemenix\PycharmProjects\programiranje.ba
Project Interpreter: New Virtualenv environment
New environment using
Virtualenv
Location:
C:\Users\leemenix\PycharmProjects\programiranje.ba\venv
Base interpreter:
C:\Program Files (x86)\Python38-32\python.exe
...
Inherit global site-packages
Make available to all projects
Existing interpreter
Interpreter:
<No interpreter>
...
Create
Cancel

Prvi program "Zdravo svijete!"

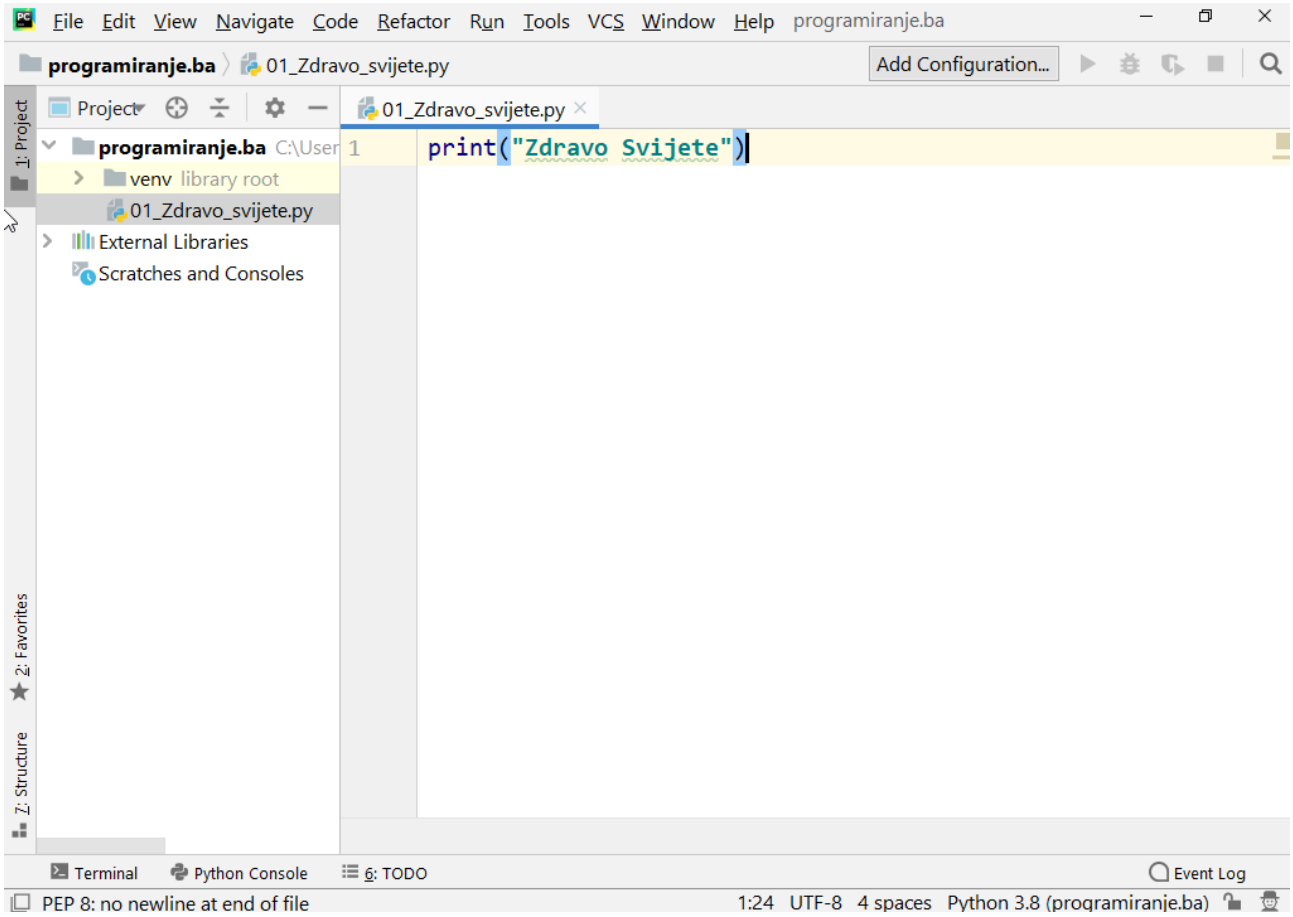


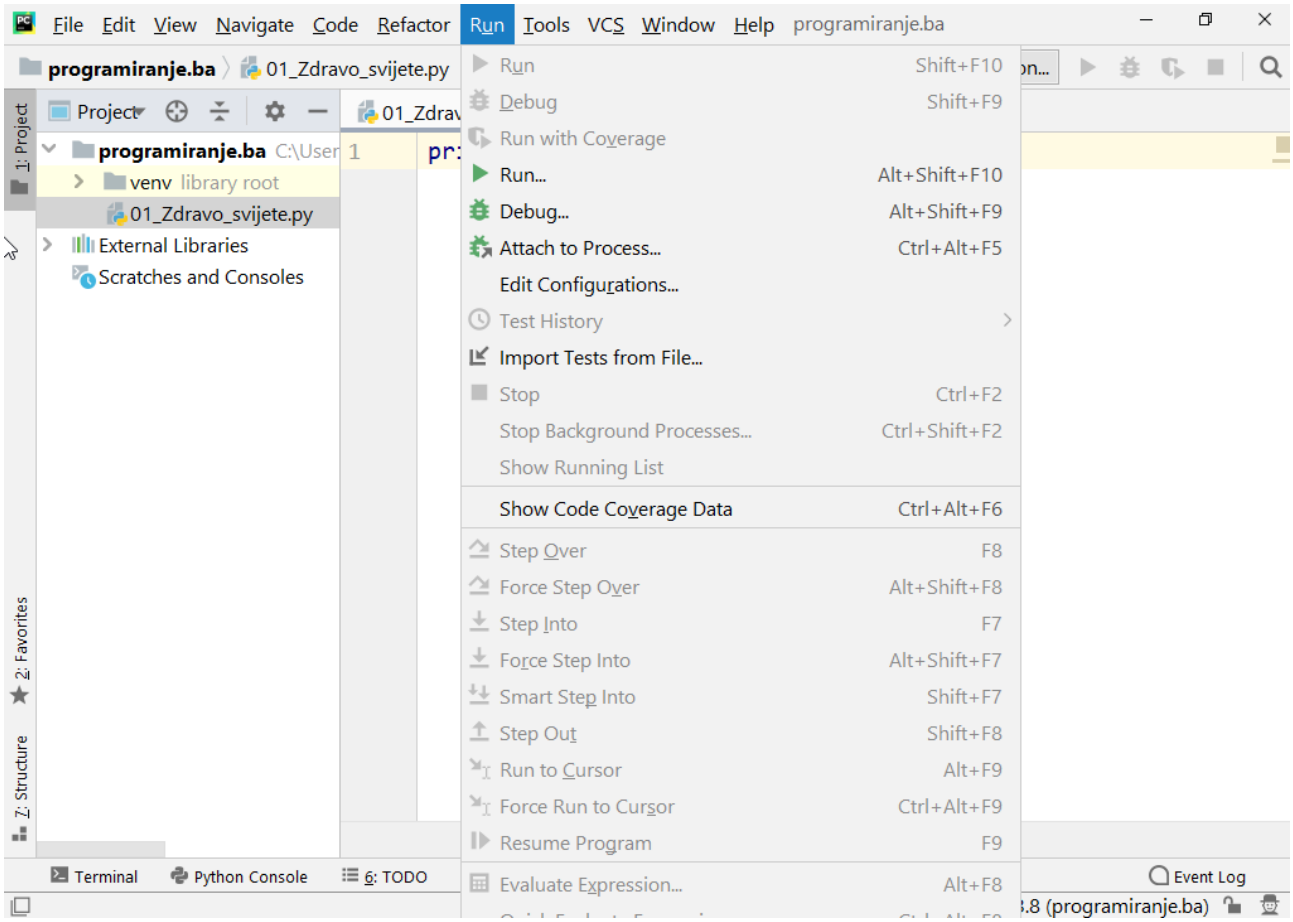


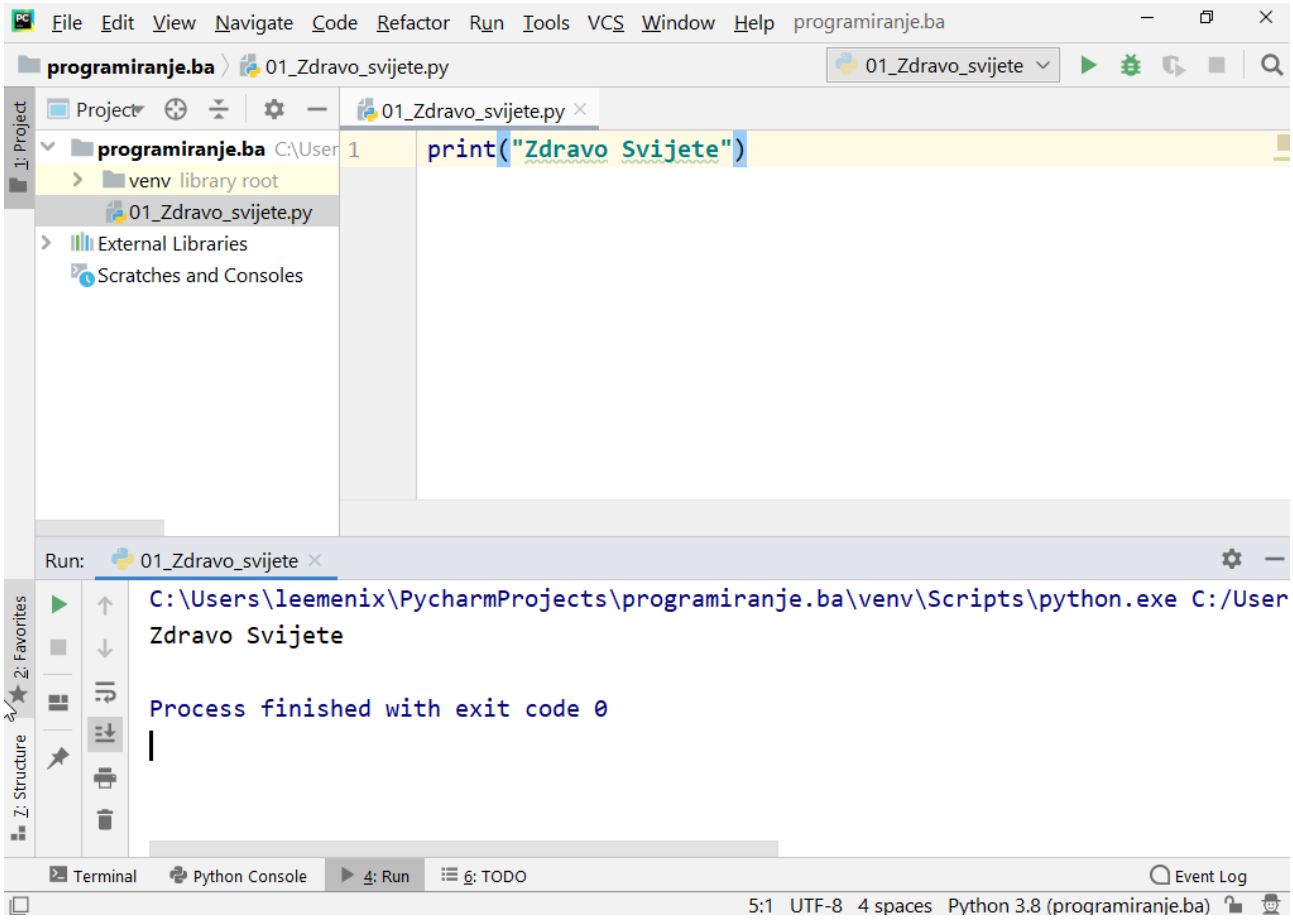


print("Pozdrav svijete!")

print("Pozdrav svijete!")


File Edit View Navigate Code Refactor Run Tools VCS Window Help programiranje.ba
programiranje.ba 01_Zdravo_svijete.py
Add Configuration...
Project
01_Zdravo_svijete.py
programiranje.ba C:\User
venv library root
01_Zdravo_svijete.py
External Libraries
Scratches and Consoles
1 print("Zdravo Svijete")
1: Project
2: Favorites
7: Structure
Terminal
Python Console
6: TODO
Event Log
PEP 8: no newline at end of file
1:24 UTF-8 4 spaces Python 3.8 (programiranje.ba)


File Edit View Navigate Code Refactor Run Tools VCS Window Help programiranje.ba
programiranje.ba 01_Zdravo_svijete.py
Project
programiranje.ba C:\User
venv library root
01_Zdravo_svijete.py
External Libraries
Scratches and Consoles
1: Project
2: Favorites
7: Structure
Terminal
Python Console
6: TODO
Event Log
Run Shift+F10
Debug Shift+F9
Run with Coverage
Run... Alt+Shift+F10
Debug... Alt+Shift+F9
Attach to Process... Ctrl+Alt+F5
Edit Configurations...
Test History
Import Tests from File...
Stop Ctrl+F2
Stop Background Processes... Ctrl+Shift+F2
Show Running List
Show Code Coverage Data Ctrl+Alt+F6
Step Over F8
Force Step Over Alt+Shift+F8
Step Into F7
Force Step Into Alt+Shift+F7
Smart Step Into Shift+F7
Step Out Shift+F8
Run to Cursor Alt+F9
Force Run to Cursor Ctrl+Alt+F9
Resume Program F9
Evaluate Expression... Alt+F8




```
# 01_Zdravo_svijete.py

print(“Zdravo Svijete”)
```

Output:
Zdravo Svijete

Varijable

Kada radimo sa podacima, potrebno ih je organizovati, kontejneri kutije u koje stavljamo pohranjujemo nase podatke predstavljaju varijable. Sta predstavljaju , zasto su korisne, koje sve vrste (tipove) podataka mozemo smjestiti u varijable.

```
# 10_Varijable-01.py

print(“Bila mama Kukunka, Kukunka”)
print(“Bio tata Taranta, Taranta”)
print(“imali su maloga Ju-Ju”)

print(“Jednom su se setali, setali”)
print(“kraj duboke rijeke Nil, rijeke Nil”)
print(“gdje je bio velik’ krokodil”)
```

Output:
Zdravo Svijete

```
# 11_Varijable-02.py

mama_ime="Kukunka"
tata_ime="Taranta"
beba_ime="Ju-Ju"
rijeka_naziv="Dunav"

print("Bila mama " + mama_ime + ", " + mama_ime)
print("Bio tata " + tata_ime + ", " + tata_ime)
print("imali su maloga " + beba_ime)

print("Jednom su se setali, setali")
print("kraj duboke rijeke " + rijeka_naziv + ", rijeke "
+ rijeka_naziv)
print("gdje je bio velik krokodil")
```