

برای اجرا کردن کدهای پایتون در لینوکس لازم است که python را نصب کنیم (در اکثر توزیع ها به طور پیش فرض نصب است)

مراحل نصب به این شکل است:

```
mohammad@Nikooo in repo: OSLab-Spring2023/HW1/OSL-HW-1-G-5/3 on P main [?] took 2ms
└─ sudo pacman -S python3
[sudo] password for mohammad:
warning: python-3.11.3-1 is up to date -- reinstalling
resolving dependencies...
looking for conflicting packages...

Packages (1) python-3.11.3-1

Total Installed Size: 75.26 MiB
Net Upgrade Size:      0.00 MiB

:: Proceed with installation? [Y/n] Y
(1/1) checking keys in keyring
(1/1) checking package integrity
(1/1) loading package files
(1/1) checking for file conflicts
(1/1) checking available disk space
:: Running pre-transaction hooks...
(1/1) Performing snapper pre snapshots for the following configurations...
Failed to set locale.
=> root: 183
:: Processing package changes...
(1/1) reinstalling python
:: Running post-transaction hooks...
(1/6) Arming conditionNeedsUpdate...
(2/6) Foreign/AUR package notification
autovpn-glt r18.28b1a87-1
notifications-servicemenu 2.7.3-1
(3/6) Orphaned package notification...
geocode-glib 3.26.4-3
kinageannotator 0.6.1-1
libvisual 0.4.2-1
ncfly 0.8.0-1
run-parts 5.5-1
(4/6) Checking for .pacnew and .pacsave files...
.pac files found:
/etc/shells.pacnew
/etc/default/grub.pacnew
/etc/mkinitcpio.conf.pacnew
/etc/pacman.d/mirrorlist.pacnew
/etc/plymouth/plymouthd.conf.pacnew
Please check and merge
(5/6) Performing snapper post snapshots for the following configurations...
Failed to set locale.
=> root: 184
(6/6) Syncing all file systems...

mohammad@Nikooo in repo: OSLab-Spring2023/HW1/OSL-HW-1-G-5/3 on P main [?] as  took 50s
└─ python --version
Python 3.11.3

mohammad@Nikooo in repo: OSLab-Spring2023/HW1/OSL-HW-1-G-5/3 on P main [?] as  took 4ms
└─
```

نصب کامل شد. یک برنامه ساده پایتون که نوشته شده است به شکل زیر است:

```
mohammad@Nikooo in repo: OSLab-Spring2023/HW1/OSL-HW-1-G-5/3 on P main [?] as  took 1ms
└─ cat program
File: program
def print_numbers(n: int) -> str:
    for i in range(n):
        print(i+1)

if __name__ == '__main__':
    print_numbers(5)
```

و با استفاده از دستور:

python name\_file

برنامه را اجرا میکنیم.

```

[mohammad@OSLab ~]$ git commit -m "A python program"
[mohammad@OSLab ~]$ git push
[mohammad@OSLab ~]$ git pull
[mohammad@OSLab ~]$ git status
On branch main
nothing to commit, working tree clean

```