

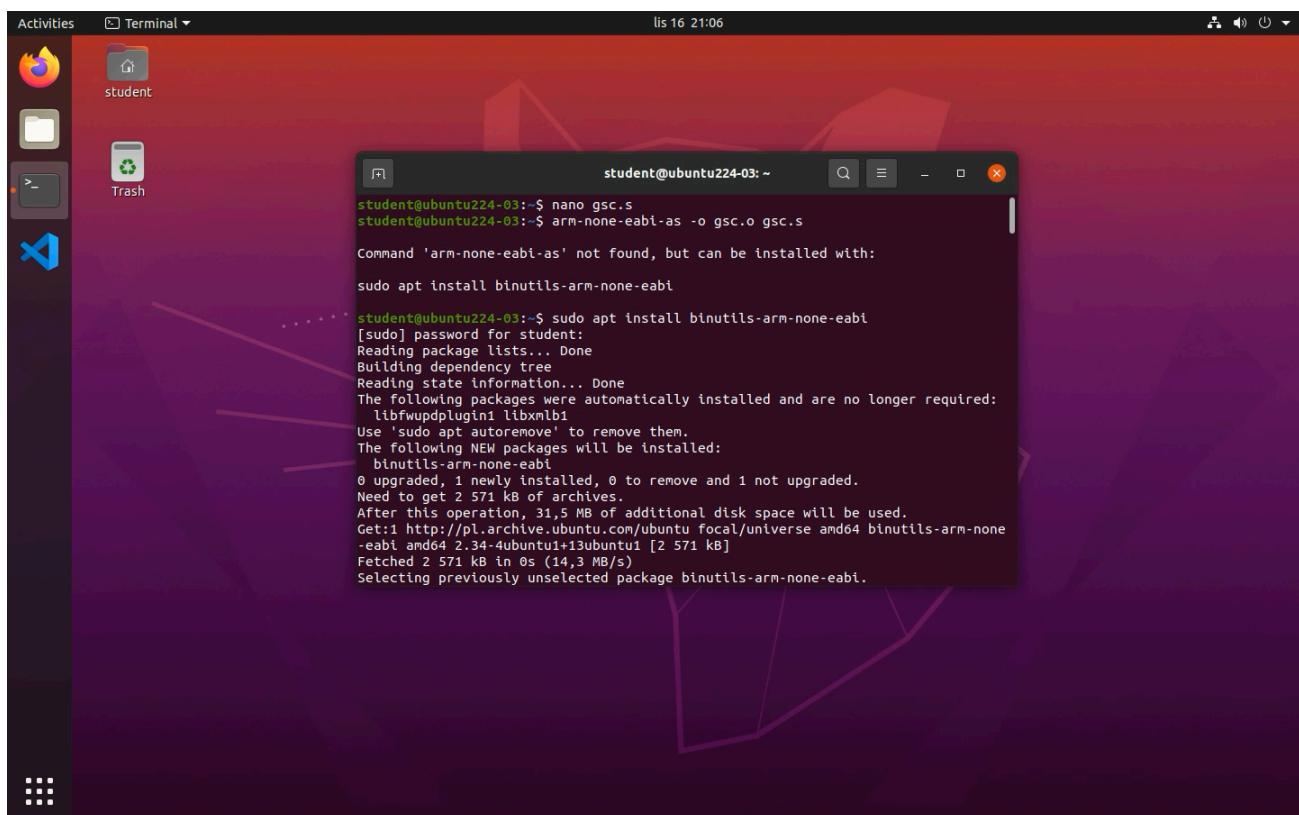
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Inf.inż III semestr	Grupa K1
Architektura systemów komputerowych	Laboratorium 6

1. Celem projektu jest napisanie programu w assemblerze ARM, który oblicza największy wspólny dzielnik (NWD) dwóch liczb całkowitych przy użyciu algorytmu Euklidesa. Program powinien wczytać dwie liczby z pamięci, obliczyć NWD, a następnie zapisać wynik w pamięci.
2. Środowisko

VMware Horizon Client, Ubuntu 20.04.5

3. Działanie programu

W rejestrach umieszczane są liczby, dla których program liczy NWD, algorytm odejmuje mniejszą od większej liczby, aż do uzyskania 0, wynik jest przekształcany na znaki ASCII i zapisywany w buforze.



Activities Terminal lis 16 21:06

```
student@ubuntu224-03:~$ sudo apt install binutils-arm-none-eabi
Reading package lists... Done
Building dependency tree
Reading state information... Done
binutils-arm-none-eabi is already the newest version (2.34-4ubuntu1+13ubuntu1).
The following packages were automatically installed and are no longer required:
  libfwupdplugin1 libxml2
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
[[student@ubuntu224-03:~$ arm-none-eabi-as -o gsc.o gsc.s
student@ubuntu224-03:~$ chmod +x gsc
student@ubuntu224-03:~$ qemu-arm ./gsc

Command 'qemu-arm' not found, but can be installed with:
sudo apt install qemu-user

student@ubuntu224-03:~$ sudo apt install qemu-user
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfwupdplugin1 libxml2
```

Activities Terminal lis 16 21:06

```
sing?
student@ubuntu224-03:~$ qemu-arm ./gsc

Command 'qemu-arm' not found, but can be installed with:
sudo apt install qemu-user

student@ubuntu224-03:~$ sudo apt install qemu-user
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfwupdplugin1 libxml2
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  binfmt-support qemu-user-binfmt
The following NEW packages will be installed:
  binfmt-support qemu-user qemu-user-binfmt
0 upgraded, 3 newly installed, 0 to remove and 1 not upgraded.
Need to get 16,1 MB/16,1 MB of archives.
After this operation, 172 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Ign:1 http://security.ubuntu.com/ubuntu focal-security/universe amd64 qemu-user
amd64 1:4.2-3ubuntu6.23
```

