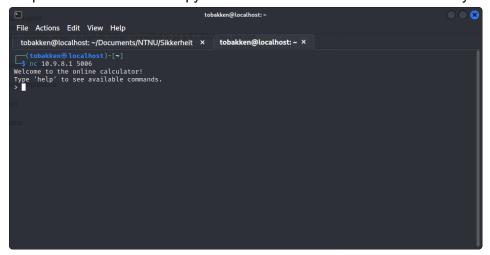
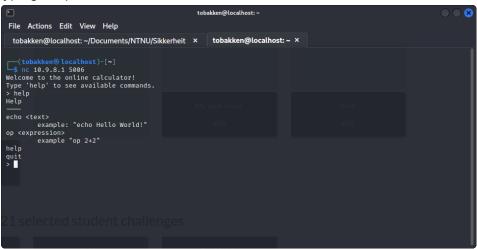
# PyCalc exploit

#### 1.1 Summary

Simple calculator written in python. When connected to 10.9.8.1:5006 you get this:



### typing 'help':



Shows two available commands: echo and op. Op is the one that calculates the expression we send. Turns out that 'op' uses a vulnerable python-function. If you write some malicious python code it will execute that code. To list out all files and directories in the same directory I used "import\_\_('os').listdir("/")"

Here you see that there is a file called 'flag.txt'.

If you use "'\_\_import\_\_('subprocess').getoutput('cat flag.txt')" you get the flag.

### 1.2 Steps to reproduce

- 1. Connect to 10.9.8.1:5006
- 2. Type "'op \_\_import\_\_('subprocess').getoutput('cat flag.txt')"'

## 1.3 Impact

This has the potential to be used to get information about files and read contents from simple textfiles.

## 1.4 Timeline

Took some time to figure out what the exploit was. When found, the exploit itself took just a few minutes.

• 07.09.22 - found the vulnerability

# Task 2 "hello"



