

Lab 1 - Report

Students:

1. Nguyễn Đình Khánh Ngân – ITCSIU22236
 2. Phan Trần Thanh Huy – ITCSIU22056
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1 Overview

2 Results

- Describe your solutions and results for exercises in the class.

Code of testing python language:

```
import sys

def func_A(args): 1 usage
    print('Hello ' + args[0] + ' and ' + args[1])

def func_B(a, b): 1 usage
    return a ** b

def main(args): 1 usage
    print("Arguments passed to the script:", args)
    if(args[1].isdigit()):
        print(func_B(int(args[0]), int(args[1])))
    else:
        func_A(args)

if __name__ == "__main__":
    main(sys.argv[1:])
```

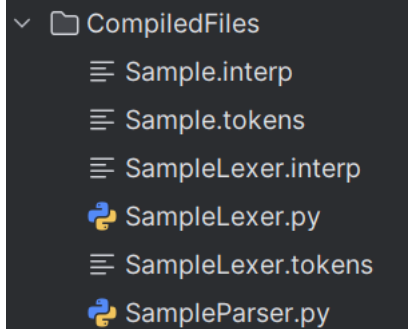
Result:

```
PS C:\Source\PPL\Lab1> python demo.py Ngan Huy
Arguments passed to the script: ['Ngan', 'Huy']
Hello Ngan and Huy
PS C:\Source\PPL\Lab1> python demo.py 24 2
Arguments passed to the script: ['24', '2']
576
```

Explain : According to the code, it will get the input from the terminal. If those inputs are number, which is checked by `isdigit()` function, it will run the `func_B(a,b)` and calculate the power a of b . Otherwise, it will print "Hello .. and ..." with `args[0]` and `args[1]` are the input from the terminal.

Run python run.py gen:

```
PS C:\Source\PPL\code ANTLR> python run.py gen
Complete jar file ANTLR : C:/Program Files/antlr/antlr4-4.9.2-complete.jar
Antlr4 is running...
Generate successfully
```



Explain:

```
17 def generateAntlr2Python(): 1 usage
18     print('Antlr4 is running...')
19     subprocess.run(['java', '-jar', ANTLR_JAR, '-o', CPL_Dest, '-no-listener', '-Dlanguage=Python3', SRC])
20     print('Generate successfully')
```