## 121020240112

October 11, 2024

```
p \wedge q \to q \wedge p
```

```
[1]: import subprocess

codice = '''
theorem and_commutative (p q : Prop) : p q → q p :=
    fun hpq : p q =>
    have hp : p := And.left hpq
    have hq : q := And.right hpq
    show q p from And.intro hq hp

'''

with open('codice.lean', 'w') as f:
    f.write(codice)

esegui = subprocess.run(['/home/mrz/lean-4.10.0-linux/bin/lake', 'env', 'lean', u'codice.lean'], capture_output = True, text = True)

print(esegui)
```

CompletedProcess(args=['/home/mrz/lean-4.10.0-linux/bin/lake', 'env', 'lean',
'codice.lean'], returncode=0, stdout='', stderr='')