

Aim:

To implement your own ping program in python.

Algorithm:

- \* Import necessary libraries: OS, platform, subprocess
- \* Detect operating system to choose correct ping parameters (-n or -c).
- \* Build ping command with target host & count.
- \* Execute command using subprocess.  
check-output().
- \* Display the ping result or error message.

Code:

```
import os
import platform
import subprocess

def ping(host="google.com", count=1):
    param = '-n' if platform.system().lower() == 'windows' else '-c'
    command = ['ping', param, str(count), host]
```



```
try:  
    output = subprocess.check_output(command,  
                                     universal_newlines=True)
```

```
    print(output)
```

```
except Exception as e:
```

```
    print(f"Ping Failed : {e}")
```

```
if __name__ == '__main__':
```

```
    ping('8.8.8.8')
```

Input:

Ping

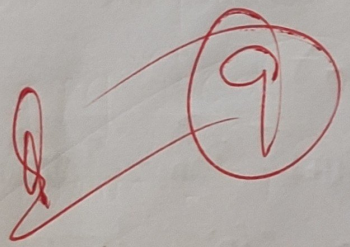
Output:

Received ping from ('8.8.8.8', 12345) in 0.01 secs

Pinging 8.8.8.8 with 32 bytes of data:

~~Packets: sent=4, Received=4, Lost=0 (0.1% Loss)~~

Result:



Ping program in python was implemented & Executed.