

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=5, Received=5, Lost=0 (0.0% loss)~~

①

Result:

Ping program in python was implemented

& Executed.