

10/10/25

## B - Implement your own ping program

Aim: To implement ping program

### Algorithm

- 1) Detect the operating system to decide what ping flag to use (-n for windows, -c for others)
- 2) Construct the system ping command with the target host and count.
- 3) Execute the ping command using subprocess, check output() and capture the result
- 4) Display the ping output or an error message if it fails.

### Program

```
import os
import platform
import subprocess
import sys

def ping(host="google.com", count=0):
    try:
        param = "-n" if platform.system() == "Windows" else "-c"
        command = [ "ping", param, str(count), host ]
        output = subprocess.check_output(command)
        print(output)
    except subprocess.CalledProcessError as e:
        print(e)

ping()
```

conversational - needulos = true )

present (out put )

except exceptions as R?

Print = ( & "Ping failed - Err3' )

if - name == main =

Ping ("8.8.8.8")

Output :

Pinging 8.8.8.8 with 32 bytes of data.

Reply from 8.8.8.8 : bytes = 32 time = 90ms  
TTL = 117

Reply from 8.8.8.8 : bytes = 32 time = 22ms

TTL = 117

Ping statistics for 8.8.8.8

packets : sent = 4, Received = 4, Lost = 0 (0% loss)

Approximate round trip times in  
milli seconds

Maximum = 90ms, Minimum = 22ms, Average = 2ms

Result

Q14/X P W

Thus the implementation of ping  
program have been executed successfully.