

10/10/20

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` process, 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

def ping(host="google.com", count=0):
    param = "-n" if platform.system() == "Windows" else "-c"
    Command = ["ping", param, str(count), host]
```

```
try =
```

```
Output = subprocess.check_output(Command)
```

ceowosa0 - newlines = true)

print (out put)

except exception as R1

print - (\ "ping failed - {e3}')

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 = 20ms
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

Minimum = 20ms, Maximum = 22ms, Average = 21ms

Result

~~Q14/X to W~~

Thus the implementation of ping
program have been executed successfully.