



Program to calculate the Round Trip Time (RTT)

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Round trip time (RTT) is the length of time it takes for a signal to be sent plus the length of time it takes for an acknowledgement of that signal to be received. This time therefore consists of the propagation times between the two point of signal.

On the Internet, an end user can determine the RTT to and from an IP (Internet Protocol) address by pinging that address. The result depends on various factors :-

- The data rate transfer of the source's internet connection.
- The nature of transmission medium.
- The physical distance between source and destination.
- The number of nodes between source and destination.
- The amount of traffic on the LAN (Local Area Network) to which end user is connected.
- The number of other requests being handled by intermediate nodes and the remote server.
- The speed with which intermediate node and the remote server function.
- The presence of Interference in the circuit.

Examples:



Input : `www.geeksforgeeks.org`

Output : Time in seconds : `0.212174892426`

Input : `www.cricbuzz.com`

Output : Time in seconds : `0.55425786972`

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```
# Python program to calculate RTT

import time
import requests

# Function to calculate the RTT
def RTT(url):

    # time when the signal is sent
    t1 = time.time()

    r = requests.get(url)

    # time when acknowledgement of signal
    # is received
    t2 = time.time()

    # total time taken
    tim = str(t2-t1)

    print("Time in seconds : " + tim)

# driver program
```



```
# url address  
url = "http://www.google.com"  
RTT(url)
```

Output:

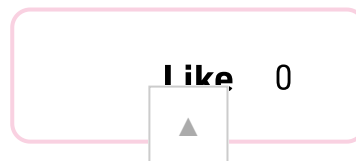
```
Time in seconds :0.0579478740692
```

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