

PARSHVANATH CHARITABLE TRUST'S A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE (ALL PROGRAMS ACCREDITED BY NBA)



APSIT SKILLS INTERNSHIP PROJECT REPORT BE COMPUTER

Project Batch: B1

Team Leader - Mihir Joshi Member - Hiten Bhatia

Technology Selected: Python

Project Topic Name: Port Scanner

Problem statement:

To find out redundant ports on a given host/server in order to mitigate an attack and identify network services running on a host.

Detailed Workflow:

- We are using Sockets, Time and Thread libraries in python
- We will implement python socket programming to scan the ports that are active on the given host.
- We will use a loop to scan the active ports on the host for the specified port range given by the user.
- If a user enters an URL we automatically convert it to its respective IP address.



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There are 2 scanning modes Simple and Comprehensive,
 Simple Mode(1024 Ports), Comprehensive Mode(64000 Ports).

GitHub / Drive link of project code:

https://github.com/mihir-mj/PortScanner

Output Screenshots:

```
Windows PowerShell
                                                         PS C:\Users\mihir\Desktop> python3 .\port.py
                Welcome To Port Scanner!!
Enter IP Address or URL :github.com
               Port Scanner By Mihir & Hiten
Select Scanning Mode :
1. Simple (1-1024 Ports)
2. Comprehensive (1-64000 Ports)
Simple Scan Selected
Scan Details :
Range: 1 - 1024 Ports
 Target: 13.234.210.38
Scanning Open Ports on 13.234.210.38
        Port
                Status Service
         22
                OPEN
                        ssh
                OPEN
                        http
                OPEN
                        https
PS C:\Users\mihir\Desktop>
```



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References:

- Tutorials Point
- GeeksforGeeks
- Computer Network Subject
- Python Socket Programming