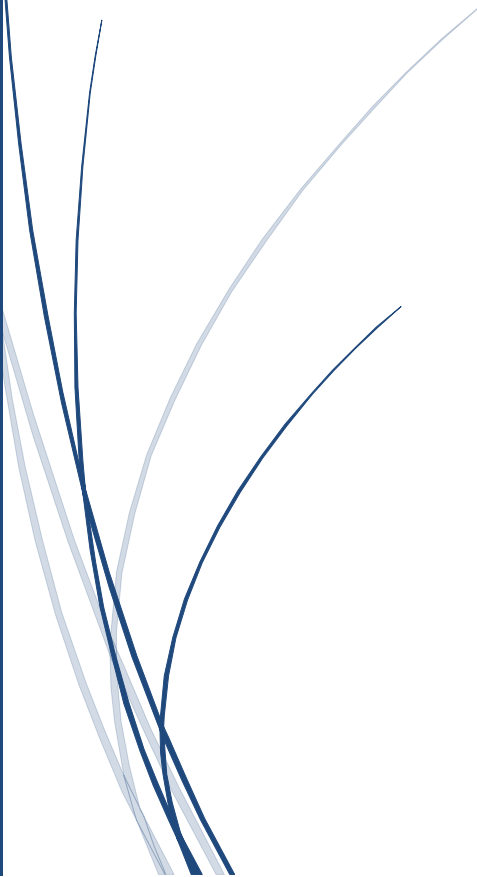




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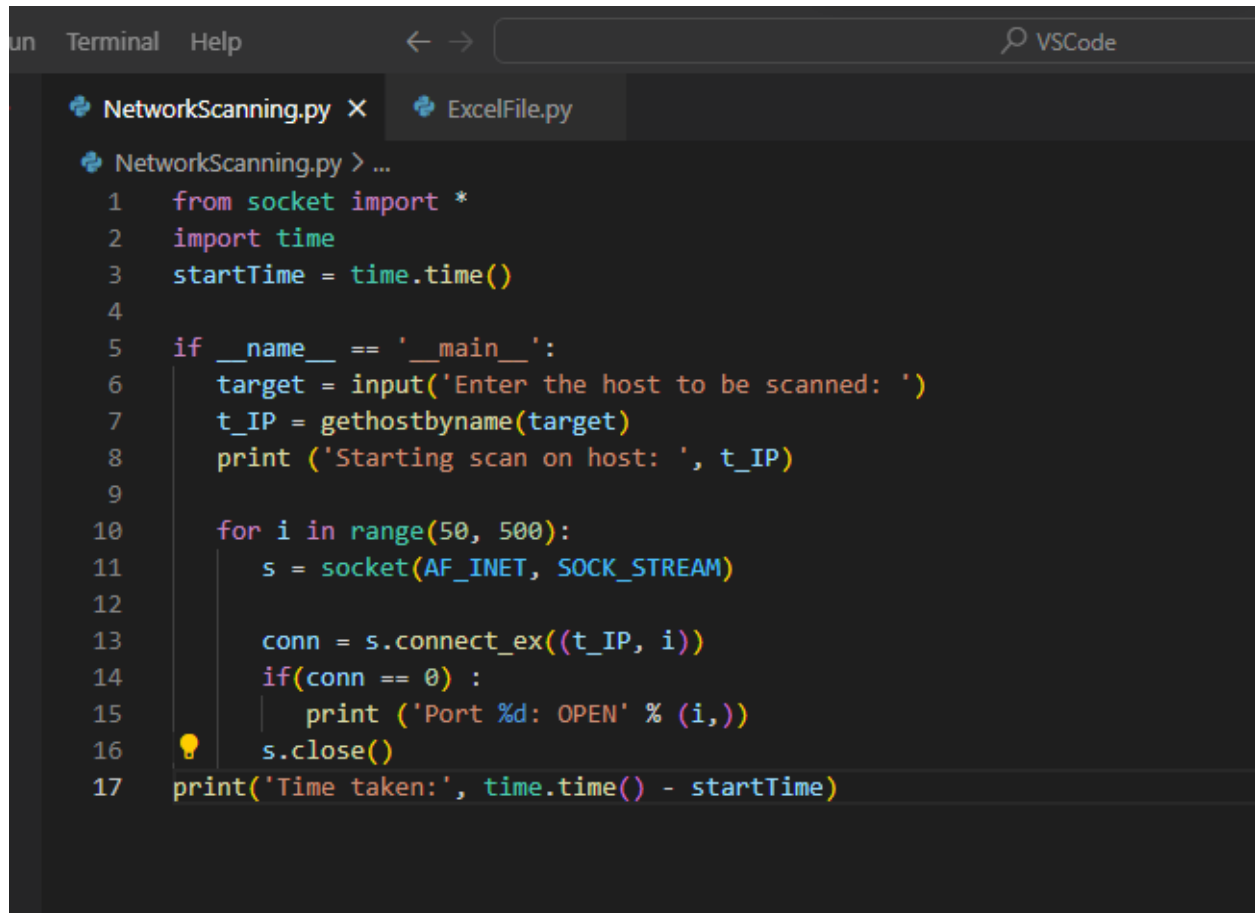
Operating Systems

Network Scanning using Python



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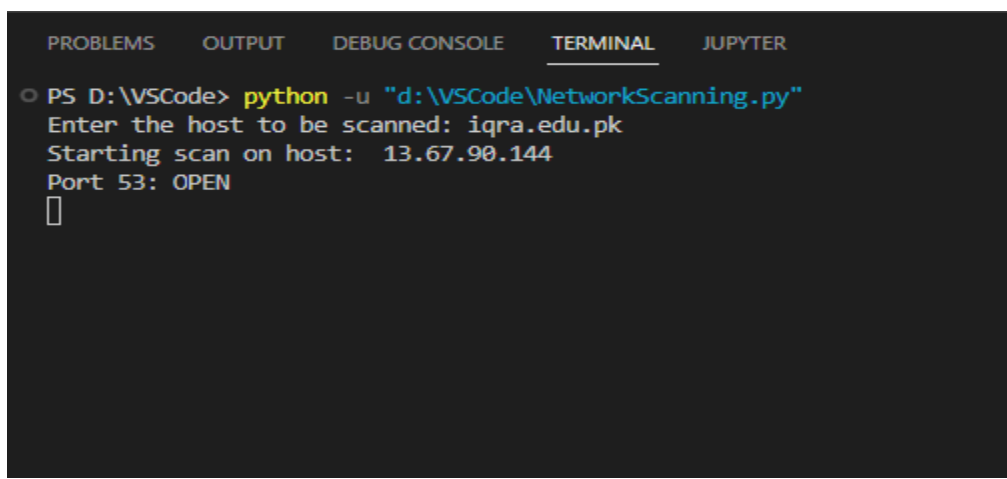
CODE



The screenshot shows the Visual Studio Code editor interface. The top bar includes 'Run', 'Terminal', and 'Help' menus, along with navigation arrows and a search icon labeled 'VSCode'. The editor has two tabs: 'NetworkScanning.py' (active) and 'ExcelFile.py'. The 'NetworkScanning.py' file is open, showing the following Python code:

```
1  from socket import *
2  import time
3  startTime = time.time()
4
5  if __name__ == '__main__':
6      target = input('Enter the host to be scanned: ')
7      t_IP = gethostbyname(target)
8      print ('Starting scan on host: ', t_IP)
9
10     for i in range(50, 500):
11         s = socket(AF_INET, SOCK_STREAM)
12
13         conn = s.connect_ex((t_IP, i))
14         if(conn == 0) :
15             print ('Port %d: OPEN' % (i,))
16         s.close()
17     print('Time taken:', time.time() - startTime)
```

OUTPUT:



The screenshot shows the 'TERMINAL' tab in the VS Code interface. The terminal displays the output of running the 'NetworkScanning.py' script. The prompt is 'PS D:\VSCode> python -u "d:\VSCode\NetworkScanning.py"'. The user input is 'iqra.edu.pk'. The output shows 'Starting scan on host: 13.67.90.144' and 'Port 53: OPEN'.

```
PS D:\VSCode> python -u "d:\VSCode\NetworkScanning.py"
Enter the host to be scanned: iqra.edu.pk
Starting scan on host: 13.67.90.144
Port 53: OPEN
[]
```