**Assignment Number 4**

Python with Kali Linux

**Name :** Niranjan Vinod Patil.

**Roll No:** SCETBTB305

**Title: Write a Python code for full host TCP Port Scanner.**

**Code:**

Import nmap

Import argparse

parser = argparse.ArgumentParser()

parser.add\_argument('--host', action="store", dest ="host", required=True)

parser.add\_argument('--port', action = "store", dest = "port", required=True)

args = parser.parse\_args() ip\_range = args.hostport\_range = args.portnm = nmap.PortScanner()

nm.scan(ip\_range,port\_range)

for host in nm.all\_hosts():state =nm[host].state()

print("Scanned:%s \t State: %s" %(host,state)) for protocols in nm[host].all\_protocols():

ports\_list = nm[host][protocols].keys() for port in ports\_list:

pstate =nm[host][protocols][port]['state'] pname =nm[host][protocols][port]['name']

print("Port:%s \t State:%s\t Service:%s" %(port,pstate,pname)) print("")

**OUTPUT:**

