import socket  
import subprocess  
from datetime import datetime  
import time  
import os  
import sys  
import argparse  
import platform  
s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)  
# socket.AF\_INET = IP4, socket.SOCK\_STREAM = TCP connection  
startTime = time.time()  
# Print nice banner using the hostname.  
print("")  
print("Welcome to port scanner "\*60)  
print("")  
today = datetime.today()  
date = today.strftime("%m/%d/%y,%H:%M:%S")  
  
print(date)  
  
  
time\_tulpe = time.localtime()  
clock = time.strftime("%H:%M:%S")  
# Ask for input  
host = input("Enter a host to scan: ")  
hostIP = socket.gethostbyname(host)  
print(clock)  
  
  
for port in range(1, 1025):  
 print("Beginning to scan......")  
 print("Scanning port:", port)  
  
 try:  
 result = s.connect\_ex((hostIP, port))  
 s.settimeout(1)  
 if result == 0:  
 print("-")  
 print("Port %d is open" % port)  
 print("")  
 # Add results to project.py file.  
 else:  
 print(port, "is Closed")  
 except KeyboardInterrupt:  
 print('\nExiting program.')  
 sys.exit()  
 # Add exceptions to project.py file  
 except socket.gaierror:  
 print('Hostname could not be resolved.')  
 sys.exit()  
 # Add exceptions to project.py file  
 except socket.timeout:  
 print('Connection timed out.')  
 sys.exit()  
 # Add exceptions to project.py file  
 except socket.error:  
 print("Couldn't connect to server.")  
 sys.exit()  
 # Add exceptions to project.py  
  
  
count: int = 0  
counter: int = count + 1  
platform.platform()  
print("Scanning finished !")  
print("")  
print("Found", counter,"open ports")  
  
print("")  
# Print total time to complete the scan.  
print('Time taken', time.time() - startTime)  
print(clock)