Test Cases One-To-One Jobs Questions 1 and 2

<u>Test Cases Question 1</u>

- For checking if an IP Address is online and connected to the network, I included 3 Test Cases.
- In Test Case 1, the Job Seeker connects to the Job Creator and they each accept the connection. Then, the Job Creator gets the job wanted to be sent (in this case 0 for Question 1) and sends this to the Job Seeker. Then the Job Creator gets the IP Address (www.espn.com) to be checked from the user and sends this to the Job Seeker. The Job Seeker then checks the status of this IP Address (connected to network), sends to the Job Creator, and the Job Creator outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.
- In Test Case 2, the Job Creator sends another IP Address (<u>www.mit.edu</u>). The Job Seeker then checks the status of this IP Address (connected to network), sends to the Job Creator, and the Job Creator outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.
- In Test Case 3, the Job Creator sends an Invalid IP Address to the Job Seeker. The Job Seeker then checks the status of this invalid IP Address (invalid IP), sends to the Job Creator, and outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.

See the screenshots below for these 3 test cases. First is Job Creator and second is Job Seeker.

```
 Command Prompt                                                                                               —  □   X

C:\Users\ryanr\pcap\src\main\java\com\Comp3670Assignment3>javac JobCreatorServer.java

C:\Users\ryanr\pcap\src\main\java\com\Comp3670Assignment3>java JobCreatorServer
The Job Creator is available at Port 8080 looking for a Job Seeker to check if a IP Address/Host Name is Connected to the Network or check the status of a given Port at a specific IP Address or Host Name

Connected to a Job Seeker

Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
0
Enter the IP Address or Host Name: www.espn.com

Completed Successfully
Job Seeker says Yes www.espn.com is Connected to the Network.

Job Seeker wants another Job
Would you like to continue with this Job Seeker? (yes/no)
yes
Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
0
Enter the IP Address or Host Name: www.mit.edu

Completed Successfully
Job Seeker says Yes www.mit.edu is Connected to the Network.

Job Seeker wants another Job
Would you like to continue with this Job Seeker? (yes/no)
yes
Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
0
Enter the IP Address or Host Name: notIP

Completed Unsuccessfully
Job Seeker says notIP does not exist.
Job Seeker terminated the connection
^C
C:\Users\ryanr\pcap\src\main\java\com\Comp3670Assignment3>
```

[INFO] ---

C:\Users\ryanr\pcap>java -jar target/uber-pcap-1.0.0.jar
Job Seeker is available looking for a Job Creator to send a IP Address/Host Name to check if it is connected to the Network or check the status of a given Port at a specific IP Address/Host Name
Do you want to accept a job from this Job Creator? (yes/no)
yes

Checking if www.espn.com is Connected to the Network

Sending Result Yes to Job Creator

Want to do another Job? (yes/no)
yes

Checking if www.mit.edu is Connected to the Network

Sending Result Yes to Job Creator

Want to do another Job? (yes/no)
yes

Checking if notIP is Connected to the Network

Sending Result Error to Job Creator

Want to do another Job? (yes/no)
NO

C:\Users\ryanr\pcap>

Test Cases Question 2

- For checking the status of a given Port at a given IP Address, I included 3 test cases.
- In Test Case 1, the Job Seeker connects to the Job Creator and they each accept the connection. Then, the Job Creator gets the job wanted to be sent (in this case 1 for Question 2) and sends this to the Job Seeker. Then the Job Creator gets the IP Address and Port number (www.espn.com and Port 80) to be checked from the user and sends this to the Job Seeker. The Job Seeker then checks the status of this Port at the IP Address (open), sends to the Job Creator, and the Job Creator outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.
- In Test Case 2, the Job Creator sends another IP Address and Port number (www.espn.com and Port 90). The Job Seeker then checks the status of this Port at the IP Address (closed/filtered), sends to the Job Creator, and the Job Creator outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.
- In Test Case 3, the Job Creator sends an Invalid IP Address and a Port number (notIP and 80) to the Job Seeker. The Job Seeker then checks the status of this Port number at the invalid IP Address (close/filtered), sends to the Job Creator, and the Job Creator outputs the result. Then the Job Seeker and Job Creator decided on if to do another one.

See the screenshots below for these 3 test cases. First is Job Creator and second is Job Seeker.

```
C:\Users\ryanr\pcap\src\main\java\com\Comp3670Assignment3>java JobCreatorServer
The Job Creator is available at Port 8080 looking for a Job Seeker to check if a IP Address/Host Name is Connected to the Network or check the status of a given Port at a specific IP Address or Host Name


Connected to a Job Seeker


Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
1
Enter the IP Address or Host Name: www.espn.com
Enter a Port Number between 1 and 49190: 80


Port Number 80 is open at IP Address/Host Name www.espn.com
Job Seeker wants another Job
Would you like to continue with this Job Seeker? (yes/no)
yes
Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
1
Enter the IP Address or Host Name: www.espn.com
Enter a Port Number between 1 and 49190: 90


Port Number 90 is closed/filtered at IP Address/Host Name www.espn.com
Job Seeker wants another Job
Would you like to continue with this Job Seeker? (yes/no)
yes
Would you like to check if a IP Address/Host Name is connected to the Network (enter 0) or check the status of a given Port at a specific IP Address/Host Name (enter 1)?
1
Enter the IP Address or Host Name: notIP
Enter a Port Number between 1 and 49190: 80


Port Number 80 is closed/filtered at IP Address/Host Name notIP
Job Seeker terminated the connection
^C
C:\Users\ryanr\pcap\src\main\java\com\Comp3670Assignment3>
```

```
C:\Users\ryanr\pcap>java -jar target/uber-pcap-1.0.0.jar
Job Seeker is available looking for a Job Creator to send a IP Address/Host Name to check if it is connected to the Network or check the status of a given Port at a specific IP Address/Host Name
Do you want to accept a job from this Job Creator? (yes/no)
yes
Checking the status of Port Number 80 at IP Address/Host Name www.espn.com
Sending the result to Job Creator

Want to do another Job? (yes/no)
yes
Checking the status of Port Number 90 at IP Address/Host Name www.espn.com
Sending the result to Job Creator

Want to do another Job? (yes/no)
yes
Checking the status of Port Number 80 at IP Address/Host Name notIP
Sending the result to Job Creator

Want to do another Job? (yes/no)
no

C:\Users\ryanr\pcap>
```