

# COMP 4985 Assignment 1: Testing

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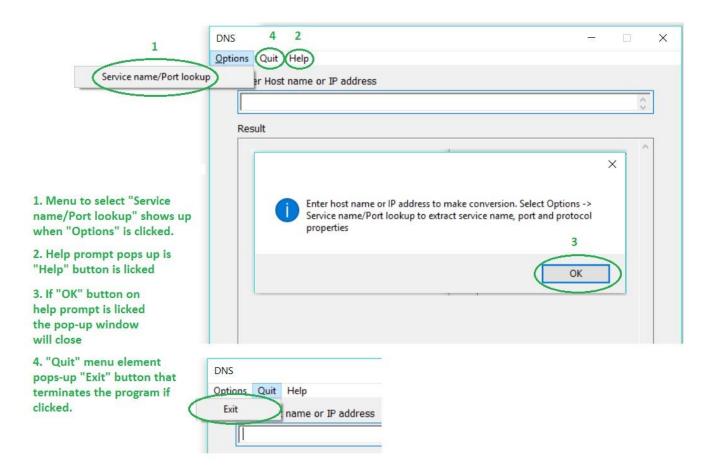


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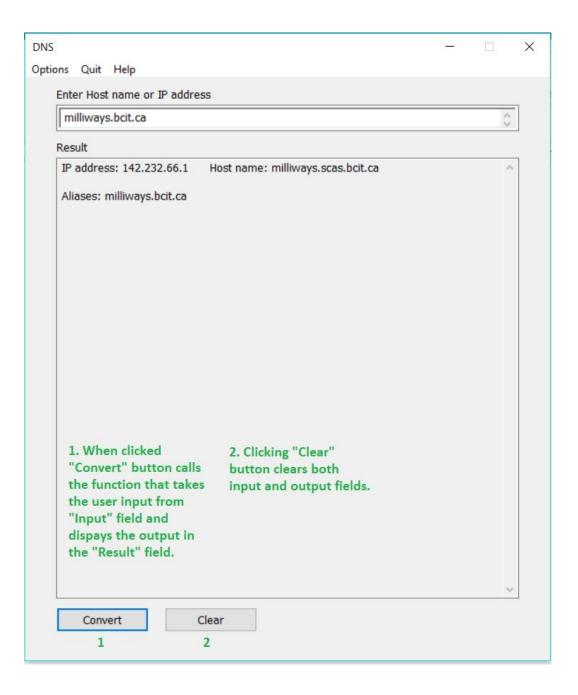
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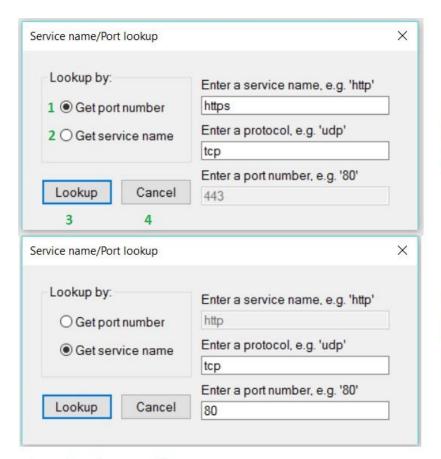
## 1. UI elements' functionality

## 1.1 Menu Options



#### 1.2 Buttons



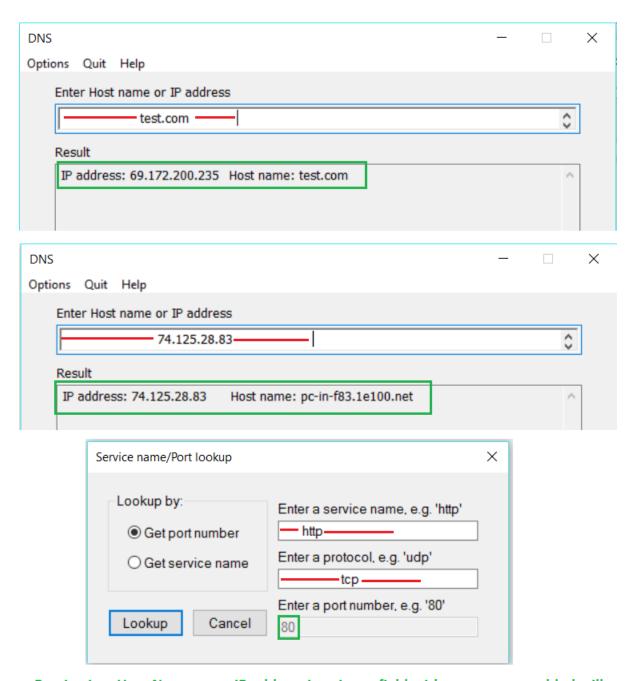


"Get port number" radiobutton
provides selection of Service Name and
Protocol entry and removes access from
Port Number field that serves as output.

2. "Get service by name" radiobutton' provides selection of Protocol and Port Number entries and removes entry access from Service Name fied that serves as output.

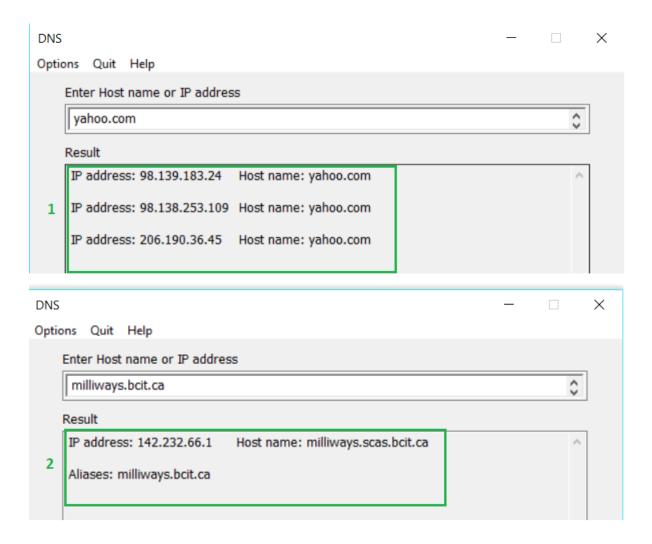
- 3. Lookup button calls a function that takes input values from the user and displays the output in the 'greyed-out field.'
- 4. "Cancel" buton closes the dialog window.

## 1.3 Input Fields

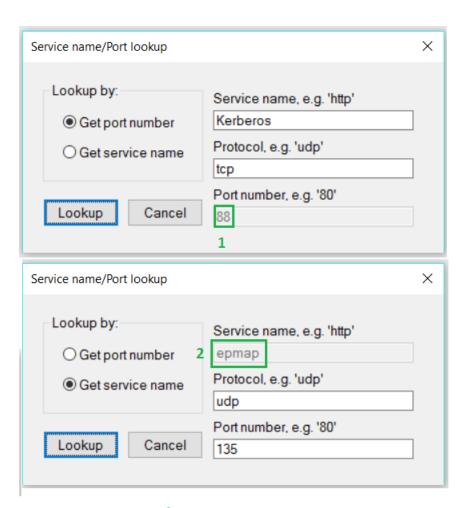


Passing in a Host Name or an IP address into input field with extra spaces added still produces valid output.

## 1.4 Output fields



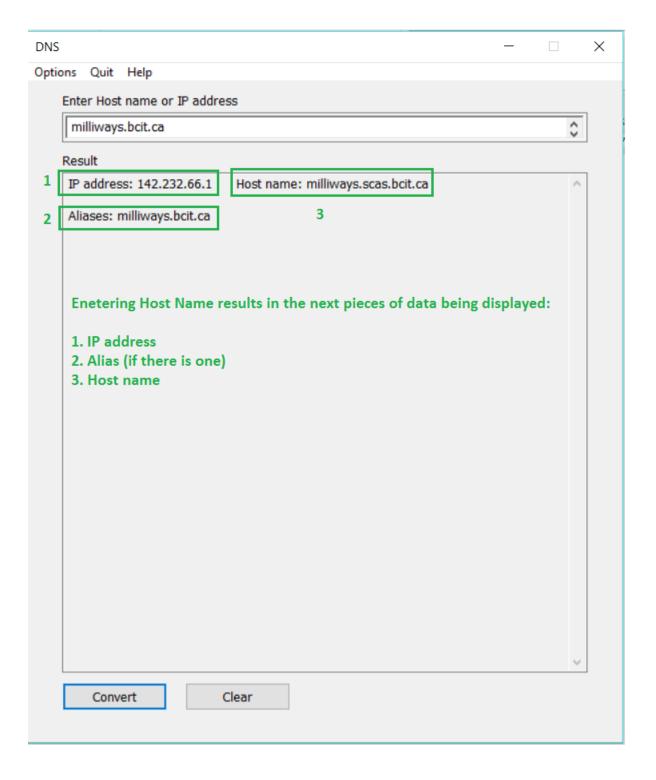
- 1. The "Result" output field displays all relevant IP addresses and Host Names separated by a new line.
- 2. If an address has an alies it's displayed below the IP address and Host Name information.

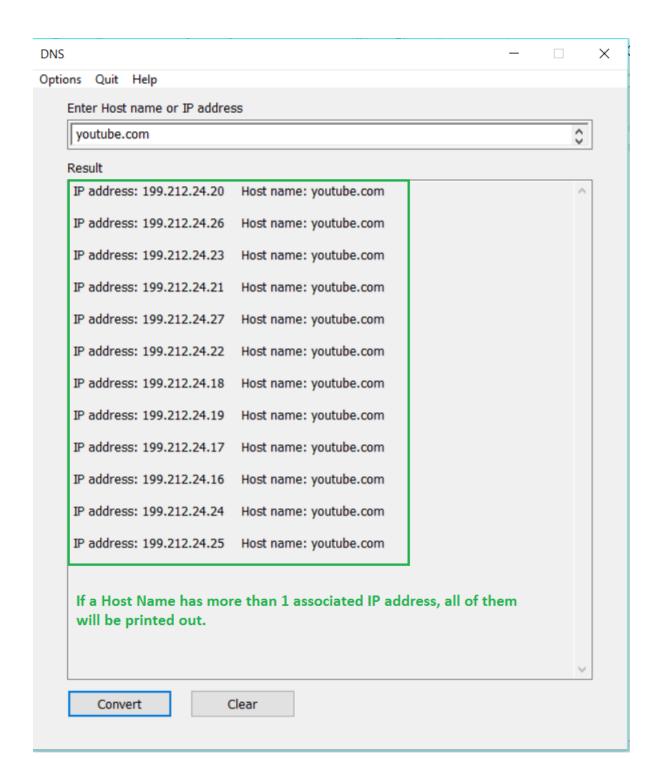


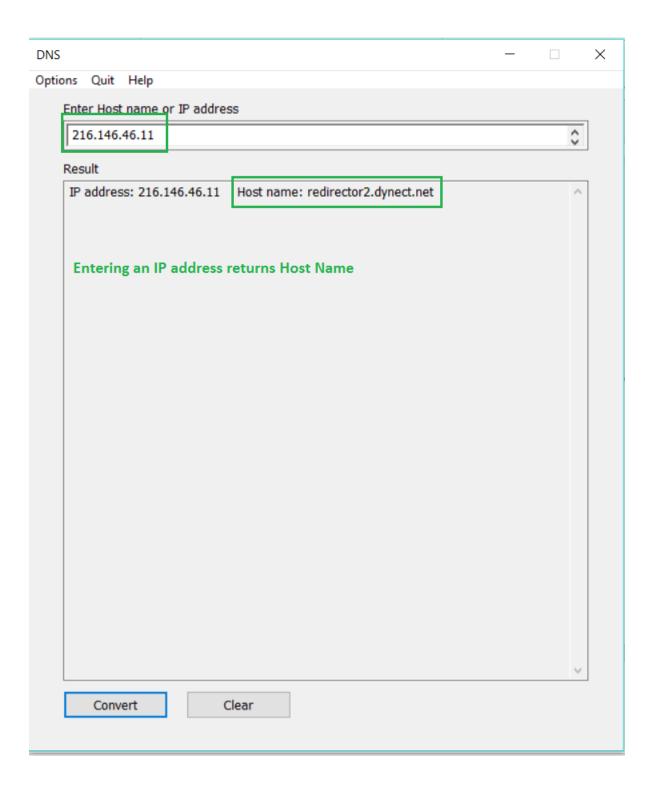
- 1. "Port number" I/O field outputs relevant port number.
- 2. "Service name" I/O field outputs relevant Service Name

## 2. Core functionality

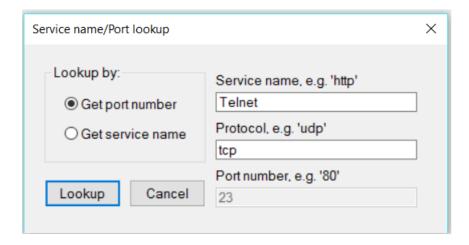
### 2.1 Conversion between Host Names and IP addresses





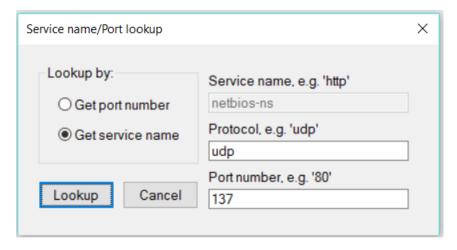


## 2.1 Get Service name functionality



Entering valid Service Name and Protocol outputs the port number.

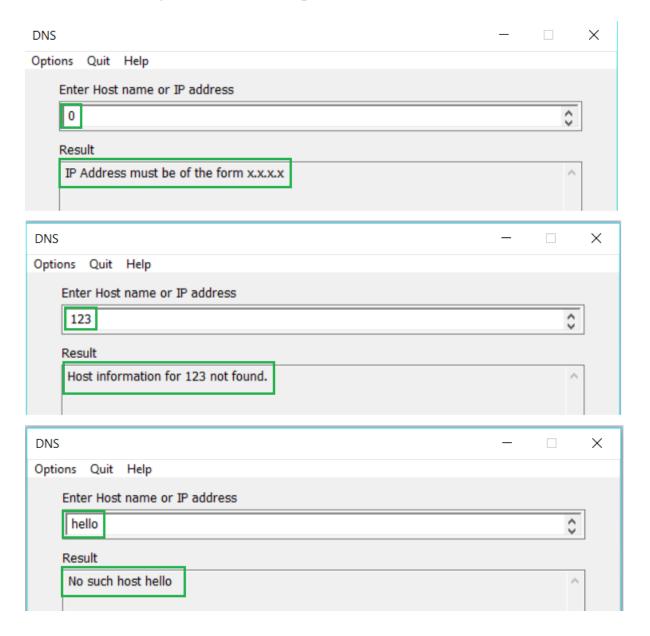
## 2.3 Get port number



Entering valid Protocol (udp) and Port Number (137) ouputs relevant Service Name.

## 2.4. Error handling for Host Name – IP conversion

### Below invalid inputs and error messages are tested:



## 2.5 Error handling for get Service Name and Get Port Number

