**COMP 7005**

**Computer Networks & Protocols**

*Assignment-02*

*Testing*

##### Anmol Mittal A01397754

##### February 9th, 2025

##### Course Reference Number (CRN): 92522

[**Tests** 4](#_Toc189354956)

[Test 01 4](#_Toc189354957)

[Test 02 4](#_Toc189354958)

[Test 03 4](#_Toc189354959)

[Test 04 5](#_Toc189354960)

[Test 05 5](#_Toc189354961)

[Test 06 5](#_Toc189354962)

[Test 07 6](#_Toc189354963)

[Test 08 6](#_Toc189354964)

[Test 09 7](#_Toc189354965)

[Test 10 7](#_Toc189354966)

[Test 11 8](#_Toc189354967)

[Test 12 8](#_Toc189354968)

[Test 13 9](#_Toc189354969)

[Test 14 9](#_Toc189354970)

[Test 15 10](#_Toc189354971)

[Test 16 10](#_Toc189354972)

[Test 17 11](#_Toc189354973)

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Expected** | **Actual** | **Screenshot** |
| Enter invalid BPF filter | fail | fail | [Test 1](#_Test_01) |
| Too many arguments in the BPF Filter | fail | fail | [Test 2](#_Test_02) |
| Enter no BPF filter | pass | pass | [Test 3](#_Test_03) |
| Run the program with too many CLI arguments | fail | fail | [Test 4](#_Test_04) |
| Enter non-number/integer in the number of packets to capture | fail | fail | [Test 5](#_Test_05) |
| No number in the number of packets to capture prompt | pass | pass | [Test 6](#_Test_06) |
| Negative number in the number of packets to capture | fail | fail | [Test 7](#_Test_07) |
| Positive number in the number of packets to capture | pass | pass | [Test 8](#_Test_08) |
| Valid BPF filter for ARP | pass | pass | [Test 9](#_Test_09) |
| Valid BPF filter for TCP | pass | pass | [Test 10](#_Test_10) |
| Valid BPF filter for UDP | pass | pass | [Test 11](#_Test_11) |
| Valid BPF filter for ICMP | pass | pass | [Test 12](#_Test_12) |
| No interface entered | pass | pass | [Test 13](#_Test_13) |
| No arguments entered at all | pass | pass | [Test 14](#_Test_14) |
| Valid BPF filter for ICMPv6 | pass | pass | [Test 15](#_Test_15) |
| Valid BPF filter for IPv6 | pass | pass | [Test 16](#_Test_16) |
| Valid BPF filter for DNS | pass | pass | [Test 17](#_Test_17) |

# **Tests**

## Test 01

A screenshot of a computer program

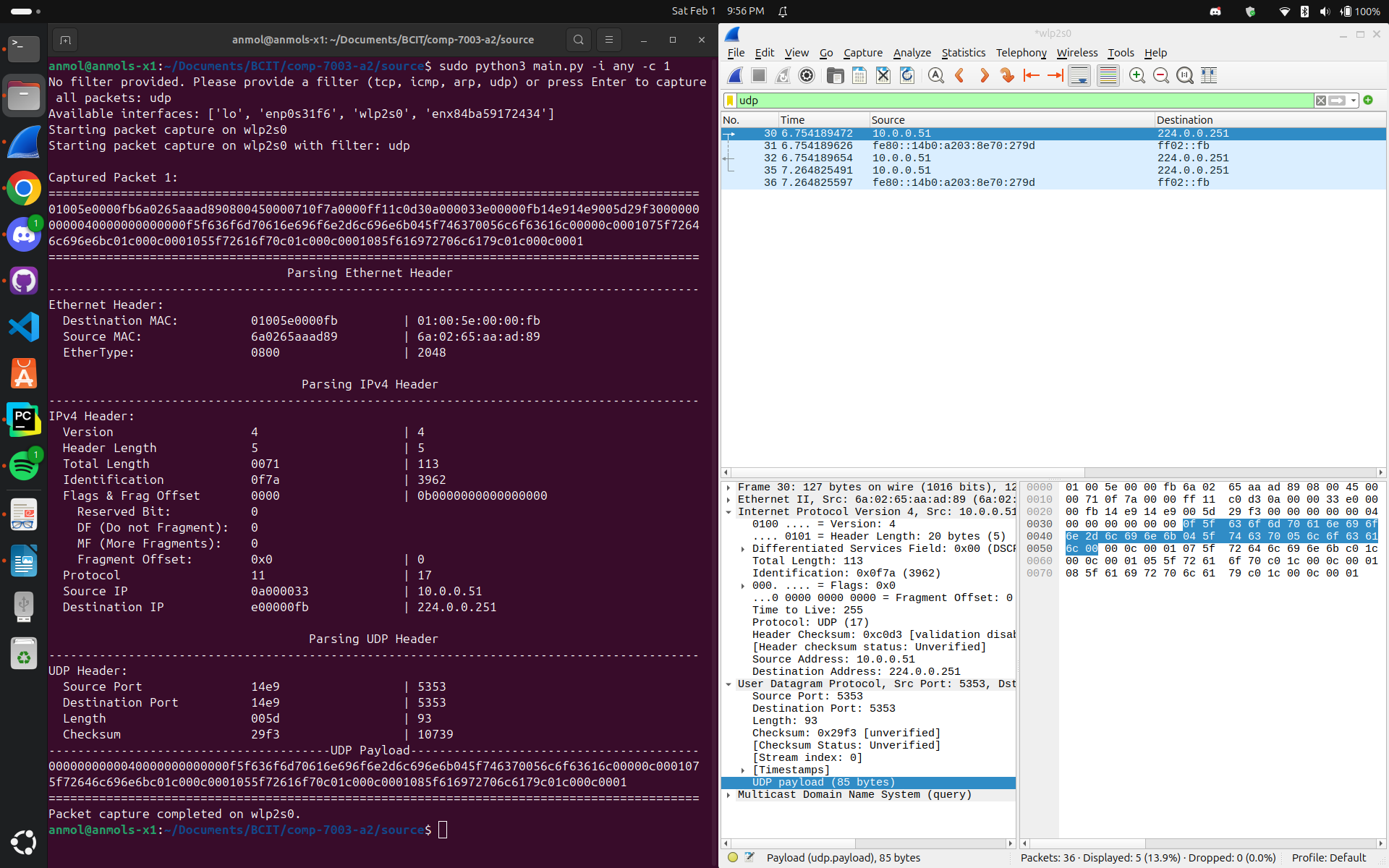
Description automatically generated

## Test 02

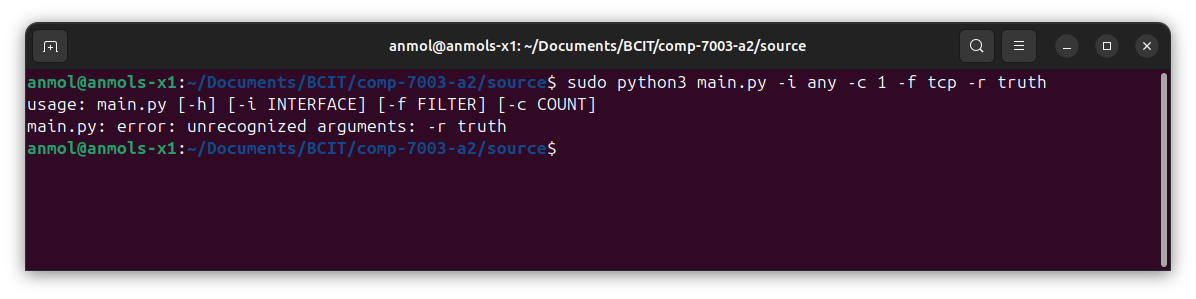
A screenshot of a computer program

Description automatically generated

## Test 03



## Test 04



## Test 05

A screenshot of a computer program

Description automatically generated

## Test 06

A screenshot of a computer screen

Description automatically generated

## Test 07

A screenshot of a computer program

Description automatically generated

## Test 08

A screenshot of a computer

Description automatically generated

## Test 09

A screenshot of a computer screen

Description automatically generated

## Test 10

A screenshot of a computer

Description automatically generated

## Test 11

A screenshot of a computer screen

Description automatically generated

## Test 12

A screenshot of a computer

Description automatically generated

## Test 13

A screenshot of a computer

Description automatically generated

## Test 14

A screenshot of a computer

Description automatically generated

## Test 15

A screenshot of a computer

Description automatically generated

## Test 16

A screenshot of a computer

Description automatically generated

## Test 17

A screenshot of a computer

Description automatically generated