Mohammad Ali Jinnah University
Live, Learn and Be Inspired

Name: Muhammad Fahad

ID: FA19-BSSE-0014

Course: Data Communications and Networks

Section: AM

Teacher: SYED MEIRAJ Hasan

Task 01:

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert   www.pakistan.gov.pk

Tracing route to www.pakistan.gov.pk [203.101.184.123]
over a maximum of 30 hops:

  1     15 ms     13 ms     26 ms  Tenda.Home [192.168.10.1]
  2    345 ms    609 ms    558 ms  182.176.0.125
  3    556 ms    609 ms    714 ms  10.0.4.29
  4   3691 ms   3409 ms   2499 ms  10.253.4.122
  5   1523 ms   1235 ms   1283 ms  10.253.4.26
  6      *       981 ms   1409 ms  telstra2-lacp-10g.hkix.net [123.255.90.218]
  7    664 ms      *       954 ms  unknown.telstraglobal.net [202.127.78.186]
  8   1243 ms    896 ms    798 ms  po110.bs-b.sech-hkg2.netarch.akamai.com [72.52.2.184]
  9      *         *         *     Request timed out.
 10      *       398 ms    398 ms  ae121.access-a.sech-hkg2.netarch.akamai.com [72.52.2.189]
 11    403 ms    358 ms    273 ms  a72-52-63-71.deploy.static.akamaitechnologies.com [72.52.63.71]
 12    385 ms    199 ms    229 ms  a72-52-25-142.deploy.static.akamaitechnologies.com [72.52.25.142]
 13    260 ms    481 ms      *     202.163.94.81
 14      *      1696 ms    852 ms  202.163.94.14
 15    180 ms    592 ms    474 ms  192.168.201.6
 16    520 ms    565 ms    713 ms  172.16.54.2
```

Task 02 (www.nadra.gov.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.nadra.gov.pk

Tracing route to www.nadra.gov.pk.cdn.cloudflare.net [104.22.15.154]
over a maximum of 30 hops:

  1     12 ms     10 ms      2 ms  Tenda.Home [192.168.10.1]
  2     53 ms     39 ms     39 ms  182.176.0.125
  3    108 ms     72 ms     44 ms  10.0.4.33
  4     49 ms     41 ms     43 ms  10.253.4.122
  5     48 ms     41 ms     42 ms  10.253.4.24
  6    131 ms    147 ms    132 ms  4637.sgw.equinix.com [27.111.228.4]
  7    135 ms    137 ms    134 ms  i-93.sgpl-core02.telstraglobal.net [202.84.224.189]
  8    205 ms    254 ms    207 ms  i-93.sgpl-core02.telstraglobal.net [202.84.224.189]
  9    209 ms    217 ms    209 ms  i-14250.jtha-core02.telstraglobal.net [202.84.141.29]
 10    207 ms    211 ms    208 ms  i-14250.jtha-core02.telstraglobal.net [202.84.141.29]
 11    208 ms    208 ms    212 ms  i-96.siko11.telstraglobal.net [202.47.216.254]
 12    305 ms    213 ms    234 ms  unknown.telstraglobal.net [210.57.79.3]
 13    283 ms    283 ms    298 ms  172.70.120.2
 14    295 ms    281 ms    290 ms  104.22.15.154

Trace complete.
```

Task 03 (www.finance.gov.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.finance.gov.pk

Tracing route to finance.gov.pk [210.56.14.219]
over a maximum of 30 hops:

  1     14 ms     14 ms     12 ms  Tenda.Home [192.168.10.1]
  2     61 ms     39 ms     45 ms  182.176.0.125
  3     46 ms     49 ms     64 ms  10.0.4.29
  4     40 ms     42 ms     62 ms  10.253.4.40
  5     61 ms     61 ms     86 ms  10.253.4.19
  6     63 ms     61 ms     85 ms  10.253.12.25
  7     61 ms     90 ms     85 ms  221.120.253.34
  8     64 ms     62 ms    165 ms  Touchstone-4.rwp44d1.pie.net.pk [202.125.149.58]
  9    130 ms     66 ms     70 ms  210.56.8.151
```

Task 04 (www.pmo.gov.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.pmo.gov.pk

Tracing route to www.pmo.gov.pk [203.101.184.118]
over a maximum of 30 hops:

  1     4 ms      6 ms      3 ms  Tenda.Home [192.168.10.1]
  2    55 ms     53 ms     74 ms  182.176.0.125
  3    43 ms     46 ms     45 ms  10.0.4.33
  4    43 ms     45 ms     42 ms  10.253.4.40
  5    44 ms     42 ms     51 ms  10.253.4.8
  6   150 ms    153 ms    154 ms  telstra2-lacp-10g.hkix.net [123.255.90.218]
  7   166 ms    163 ms    147 ms  unknown.telstraglobal.net [210.176.141.218]
  8   154 ms    210 ms    175 ms  po111.bs-b.sech-hkg2.netarch.akamai.com [72.52.2.186]
  9     *         *         *     Request timed out.
 10   147 ms    156 ms    145 ms  ae121.access-a.sech-hkg2.netarch.akamai.com [72.52.2.189]
 11   158 ms    156 ms    151 ms  a72-52-63-68.deploy.static.akamaitechnologies.com [72.52.63.68]
 12   171 ms    172 ms    233 ms  a72-52-21-194.deploy.static.akamaitechnologies.com [72.52.21.194]
 13   203 ms    213 ms    222 ms  202.163.94.81
 14   281 ms    341 ms    185 ms  202.163.94.14
 15   170 ms    197 ms    171 ms  192.168.201.6
 16   242 ms    246 ms    178 ms  172.16.54.2
```

Task 05 (www.uet.edu.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.uet.edu.pk

Tracing route to www.uet.edu.pk [104.21.11.50]
over a maximum of 30 hops:

  1     3 ms      6 ms     26 ms  Tenda.Home [192.168.10.1]
  2    42 ms     71 ms     64 ms  182.176.0.125
  3    52 ms     42 ms     50 ms  10.0.4.33
  4    46 ms     99 ms     40 ms  10.253.4.122
  5   160 ms    148 ms     87 ms  10.253.4.22
  6   244 ms    153 ms    255 ms  116.51.31.117
  7     *       156 ms    255 ms  ae-0.r23.sngpsi07.sg.bb.gin.ntt.net [129.250.4.133]
  8   200 ms    192 ms    265 ms  ae-17.r31.tokyjp05.jp.bb.gin.ntt.net [129.250.2.243]
  9   232 ms    198 ms    210 ms  ae-2.r02.tokyjp08.jp.bb.gin.ntt.net [129.250.2.131]
 10   327 ms    290 ms    330 ms  ae-1.cloudflare.tokyjp08.jp.bb.gin.ntt.net [128.241.9.77]
 11   322 ms    304 ms    289 ms  172.70.120.4
 12   411 ms    282 ms    298 ms  104.21.11.50

Trace complete.
```

Task 06 (www.uswat.edu.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.uswat.edu.pk

Tracing route to uswat.edu.pk [49.12.122.233]
over a maximum of 30 hops:

  1    83 ms      6 ms      7 ms  Tenda.Home [192.168.10.1]
  2   229 ms     85 ms    120 ms  182.176.0.125
  3    43 ms     44 ms     47 ms  10.0.4.29
  4    74 ms     43 ms     41 ms  10.253.4.122
  5    97 ms     43 ms     44 ms  10.253.4.22
  6   185 ms    178 ms    185 ms  ae3-1.fra20.core-backbone.com [80.81.192.187]
  7   209 ms    167 ms    182 ms  ae1-2014.nbg40.core-backbone.com [81.95.15.206]
  8   169 ms    176 ms    180 ms  core-backbone.hetzner.com [80.255.9.22]
  9     *       475 ms      *     core23.fsn1.hetzner.com [213.239.245.10]
 10   223 ms    185 ms    189 ms  ex9k2.dc15.fsn1.hetzner.com [213.239.245.206]
 11   878 ms   1004 ms    343 ms  c19.eelserver.com [49.12.122.233]

Trace complete.
```

Task 07 (www.kum.edu.pk):

```
C:\Users\MFY\Desktop\Semeste_5_FALL-2021_\5) Data Communication and Networks_BM\Theroy\Assignement>tracert www.kum.edu.pk

Tracing route to kum.edu.pk [203.124.44.149]
over a maximum of 30 hops:

  1    33 ms     55 ms     57 ms  Tenda.Home [192.168.10.1]
  2    71 ms    150 ms    115 ms  182.176.0.125
  3   181 ms    202 ms    147 ms  10.0.4.33
  4    62 ms     76 ms     44 ms  10.253.4.40
  5    59 ms     83 ms     86 ms  10.253.4.19
  6    80 ms     61 ms     76 ms  10.253.12.25
  7   160 ms    104 ms     93 ms  221.120.253.34
  8    70 ms     59 ms     77 ms  Touchstone-4.rwp44d1.pie.net.pk [202.125.149.58]
```