Lab 12 Parameters and variables & Shell functions

1. Rewrite function is validip using parameter expansion instead of changing IFS. Then write another script that accepts a list of IP address (the number of IP address is unknown) and calls the function you have just wrote to check for the validity of IP address(es) and finally print a list of valid IP address followed by a list of invalid IP address.

Example 1

\$./checkIPvalidity 127.0.0.1 168.260.0.234 1.2.3.4 123.10o.34.21 204.225.122.150

Valid IP address are as follows.

127.0.0.1

1.2.3.4

204.225.122.150

Invalid IP address are as follows.

168.260.0.234

123.100.34.21

Example 2

\$./checkIPvalidity 161.200.126.68 161.200.122.244 161.200.107.79

Valid IP address are as follows.

161.200.126.68

161.200.122.244

161.200.107.79

Example 3

\$./checkIPvalidity 161.200.126.368 161.200.122.344 161.300.107.79

Invalid IP address are as follows.

161.200.126.368

161.200.122.344

161.300.107.79

Source: Modified from Johnson, C. and Varma, J. (2015) Pro bash programming. Apress.

2. Add a check to max3 to verify that VARNAME is a valid name for a variable.

\$ max3 32 44 13 results

\$ echo \${results[@]}

44 32 13

\$ max3 32 44 13 re+sults

Invalid variable name

\$ max3 32 44 13 res^ults

Invalid variable name

\$ max3 32 44 13 8results

Invalid variable name

Source: Johnson, C. and Varma, J. (2015) Pro bash programming. Apress.