Answer the following questions by developing some scripts in Matrix.

**Question 1)** Complete the following steps and save them into a script (name it as Q1\_yourname.sh) (25 marks)

A. Create an associative array (name it myCourses) which stores your current courses in this semester (more than three courses)

like ULI101: Intro to Unix

B. Display all the array data (both course code and course name)

C. Display the size of the array

D. Display size of each course\_name

**Question 2)** Your are asked to extract some network information (netmask and broadcast address) from ifconfig command: (35 marks)

You decided to create a script, name it netgear\_yourname.sh which works as follow:

netgear\_yourname.sh -n -----> it displays all "netmask" addresses

netgear\_yourname.sh -b -----> it displays all "broadcast" addresses

Develop this script and consider the following features in your design,

1) You can use any of the filtering commands (sed, awk, grep,...), to extract "netmask" and "broadcast" addresses

2) Use modular programming approach by developing function/procedure

**Ifconfig output the following: we need to get yellow highlighted addresses and red underlined addresses**



