Lab #8 – Shell Script

Part I - arrays

Use *array* to write a shell script to print out the information about the files and directories in the current directory according to the following sample run.

```
>>>>> ls
compute    print repeat
>>>>> compute
practice: shell command and array
list all directories and files in current directory: compute print repeat
total number of files and directories: 3
the first element in this list: compute
all elements in this list:
compute
print
repeat
>>>>>
```

Part II – shell script

Two files *courses* and *emails* are given where columns are separated by tabs.

courses:

101	60212	90
101	60256	81
102	60231	70
102	60212	85
103	60256	n/a

emails:

```
101 101@uwindsor.ca
102 102@uwindsor.ca
103 103@uwindsor.ca
```

Write a bash script to find the emails of all students taking a specific course, which is given as a command line argument.

Hints: use *grep* command for the search, and use *array* to store intermediate data.

Sample output:

```
>>>>> mysolution
usage: mysolution course-number
>>>>> mysolution 60200
course number 60200 not found
>>>>> mysolution 60256
101@uwindsor.ca
103@uwindsor.ca
```