

A sample execution of the program is shown below:

```
Select a choice:
1. Read Array
2. Print Array
3. Reverse a row
4. Reverse a column
5. Exit
1
Enter number of rows: 2
Enter number of columns: 3
Enter 6 integers:
1 2 3
4 5 6
Select a choice:
1. Read Array
2. Print Array
3. Reverse a row
4. Reverse a column
5. Exit
3
Enter a row number: 0
3 2 1
4 5 6

Select a choice:
1. Read Array
2. Print Array
3. Reverse a row
4. Reverse a column
5. Exit
4
Enter a column number: 1
3 5 1
4 2 6
Select a choice:
1. Read Array
2. Print Array
3. Reverse a row
4. Reverse a column
5. Exit
6
Invalid Choice
Select a choice:
1. Read Array
2. Print Array
3. Reverse a row
4. Reverse a column
5. Exit
```

- Q.3.** Write a C program that asks the user to enter a string of characters, str1, and another string of characters, str2. Then the program replaces all occurrences of str2 in str1 by *. Assume that the maximum length of str1 and str2 is 80.

A sample execution of the program is shown below:

```
Enter a string: Khaled Salem Saleh
Enter another string: ale
Updated string: Kh***d S***m S***h
Press any key to continue . . . -
```

This homework is to be done by a group of two students. The solution should be well organized and your program should be well documented. Submit a soft copy of your solution in a zip file. Your solution should be submitted in a word file that contains the following items:

- i) *Your names and IDs*
- ii) *Homework number*
- iii) *Problem statement for each question*
- iv) *Your solution along with the code for each question*
- v) *Discussion of what worked and what did not work in your programs. Include snapshots that demonstrate the working parts of your programs. If things did not work and you attempted to solve them, mention that and write about the difficulty that you have faced.*

The soft copy should also contain the source code files (i.e. .c) for each question separately.