19.04.2021

Experiment 3

Q1) Write a C code that outputs in the form of square matrices given as an example below according to the number of "N" entered. ("N" value presents size of (N x N) square matrix.) The only input should be the number "N" and output in the required order. Note: Be careful when the "N" value is even and odd.

```
Please enter size of table 5
1 2 3 2 1
2 3 4 3 2
3 4 5 4 3
4 5 6 5 4
5 6 7 6 5

Process exited after 2.525 seconds with return value 0
Press any key to continue . . .
```

```
Please enter size of table 4
1 2 2 1
2 3 3 2
3 4 4 3
4 5 5 4

Process exited after 1.206 seconds with return value 0
Press any key to continue . . . _
```

Q2) Write a C code for a data storage system that works with the command system.

- The system works with a two-digit number command system.
- The ones digit of the number entered as a command indicates the data line where the operation will be performed.
- Tens digit "1" means data addition and "2" means data deletion.
- There are 10 data lines in total.
- The program should not end.

```
Enter command: 24
-- Add process for 4
Enter data 1: 25
Enter data 2: 36
Enter data 3: 78
Enter data 4: 59
Enter data 5: 2
Updated Data:
00000
00000
00000
00000
25 36 78 59 2
0000
00000
00000
00000
00000
Enter command:
```