

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q1.exe

*****MULTIPLICATION TABLE*****

      1      2      3      4      5      6      7      8      9     10
      -      -      -      -      -      -      -      -      -      -
1>    1      2      3      4      5      6      7      8      9     10
      -
2>    2      4      6      8     10     12     14     16     18     20
      -
3>    3      6      9     12     15     18     21     24     27     30
      -
4>    4      8     12     16     20     24     28     32     36     40
      -
5>    5     10     15     20     25     30     35     40     45     50
      -
6>    6     12     18     24     30     36     42     48     54     60
      -
7>    7     14     21     28     35     42     49     56     63     70
      -
8>    8     16     24     32     40     48     56     64     72     80
      -
9>    9     18     27     36     45     54     63     72     81     90
      -
10>   10     20     30     40     50     60     70     80     90    100
      -

-----
Process exited after 0.9092 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q2.exe

Sum of 2 matrixes
9      5      9
5      13     6
11     11     9

Difference of 2 matrixes
-3      5      5
-3     -1      4
-3      7      7

Multiplication of 2 matrixes
87     49     18
65     52     13
116    79     25

-----
Process exited after 0.942 seconds with return value 10
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q3.exe
Sum of the values = 855.26
Average of the values = 57.02
Maximum value = 98.40
Minimum value = 9.30
98.40 is the element which appears a maximum number of times. It appears 4 times

-----
Process exited after 0.3329 seconds with return value 81
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q4.exe
Enter the marks of the 5 students (Out of 100)
90
76
65
52
41
Student 1's grade is A
Student 2's grade is B
Student 3's grade is C
Student 4's grade is D
Student 5 has failed the exam

-----
Process exited after 23.46 seconds with return value 30
Press any key to continue . . .
```

```
C:\Users\sinoxdel\Documents\201009_Lab_Sheet_5_Q5.exe
Enter 10 elements
76
87
65
56
76
87
56
34
12
90

The distinct elements are 76 87 65 56 34 12 90
There are 7 distinct elements
-----
Process exited after 23.03 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinoxdel\Documents\201009_Lab_Sheet_5_Q6.exe
Enter 10 Integers
87
87
98
12
32
54
23
90
56
43

Sorted array:
12 23 32 43 54 56 87 87 90 98

-----
Process exited after 42.13 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q7.exe
6.00 4.40 1.90 2.90 3.40 2.90 3.50 2.30 7.50 4.80
1.90 2.30 2.90 2.90 3.40 3.50 4.40 4.80 6.00 7.50
-----
Process exited after 1.036 seconds with return value 6
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q8.exe
Enter 5 non negative numbers with a space: 23 45 12 5 70
The largest number formed combining entered 5 non negative numbers is: 705452312
-----
Process exited after 15.39 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q9.exe
Enter the first number in given range x=50
Enter the last number in given range x=300
the number 2s in given range is 145
-----
Process exited after 7.717 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q10.exe
Enter the word
ask
asking
-----
Process exited after 12.65 seconds with return value 6
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q10.exe
Enter the word
reading
readingly
-----
Process exited after 6.287 seconds with return value 9
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q10.exe
Enter the word
me
me
-----
Process exited after 2.389 seconds with return value 2
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S/09/867

*****VALIDATING REGISTRATION NUMBER : S/09/867*****

Condition 01:There are exactly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition satisfies
Condition 05:Last three digits immediatly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Valid Registration number*****
-----
Process exited after 14.87 seconds with return value 59
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:E/08/465

*****VALIDATING REGISTRATION NUMBER : E/08/465*****

Condition 01:There are exactly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is not satisfy
    First letter is not 'S'
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition satisfies
Condition 05:Last three digits immediatly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Invalid Registration Number*****
-----
Process exited after 9.808 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S0967854

*****VALIDATING REGISTRATION NUMBER : S0967854*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition is not satisfy
    there is no two '/' 's
    Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition is not satisfy
    Last three digits immetiadtly after the second slash not represents the student number '/'s

*****Invalid Registration Number*****
-----
Process exited after 10.04 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S/096/76

*****VALIDATING REGISTRATION NUMBER : S/096/76*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition is not satisfy
    Last three digits immetiadtly after the second slash not represents the student number '/'s

*****Invalid Registration Number*****
-----
Process exited after 12.5 seconds with return value 62
Press any key to continue . . .
```



```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S//09475

*****VALIDATING REGISTRATION NUMBER : S//09475*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition is not satisfy
    Last three digits immetiadtly after the second slash not represents the student number '/'s

*****Invalid Registration Number*****
-----
Process exited after 18.73 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S//8/564

*****VALIDATING REGISTRATION NUMBER : S//8/564*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition is not satisfy
    there is no two '/' 's
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Invalid Registration Number*****
-----
Process exited after 35.98 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S/0A/564

*****VALIDATING REGISTRATION NUMBER : S/0A/564*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Invalid Registration Number*****
-----
Process exited after 13.34 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S/A9/564

*****VALIDATING REGISTRATION NUMBER : S/A9/564*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Invalid Registration Number*****
-----
Process exited after 15.44 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S/09/674

*****VALIDATING REGISTRATION NUMBER : S/09/674*****

Condition 01:There are exacly 8 characters
    First condition satisfies
Condition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition satisfies
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition satisfies
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition satisfies

*****Valid Registration number*****
-----
Process exited after 9.756 seconds with return value 59
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q11.exe
Enter your Registration No:S@09H4N

*****VALIDATING REGISTRATION NUMBER : S@09H4N*****

Condition 01:There are exacly 8 characters
    First condition is not satisfy
    There is not 8 charactersCondition 02:First letter should be 'S'
    Second condition is satisfy
Condition 03:There should be exactly two '/'s
    Third condition is not satisfy
    there is no two '/' 's
Condition 04:The year is represented by two digits in between two '/'s
    Forth condition is not satisfy
    The year is not represented by two digits in between two '/'s
Condition 05:Last three digits immetiadtly after the second slash represents the student number '/'s
    Fifth condition is not satisfy
    Last three digits immetiadtly after the second slash not represents the student number '/'s

*****Invalid Registration Number*****
-----
Process exited after 14.97 seconds with return value 62
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q12.exe
enter the string
123456789

Reverse of the string
987654321
-----
Process exited after 4.236 seconds with return value 9
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q13.exe
INPUT THE EXPRESSION : (){ } (())

BALANCED EXPRESSION
-----
Process exited after 10.55 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q13.exe
INPUT THE EXPRESSION : (((())){]
UNBALANCED EXPRESSION
-----
Process exited after 6.232 seconds with return value 1
Press any key to continue . . .
```

```
C:\Users\sinxdel\Documents\201009_Lab_Sheet_5_Q14.exe
word cord is presnt in the string
-----
Process exited after 0.3385 seconds with return value 0
Press any key to continue . . .
```