

Answers –lab sheet 5

- Question 1

G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_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

- Question 2

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\20115
Matrix 1
3      5      7
1      6      5
4      9      8

Matrix 2
6      0      2
4      7      1
7      2      1

Addition of Matrix 1 and Matrix 2
9      5      9
5      13     6
11     11     9

Subtraction of Matrix 1 and Matrix 2
-3     5      5
-3     -1     4
-3     7      7

Multiplication of Matrix 1 and Matrix 2
87     49     18
65     52     13
116    79     25
```

- Question 3

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q3.exe
Total of the elements in the array = 855.26
Average of the elements in the array = 57.02
Minimum element in the array = 9.30
Maximum element in the array = 98.40
Element(s) which appears the maximum number of times in the array = {98.40}
```

- Question 4

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\20115
Enter the score of student no 1 : 79
Enter the score of student no 2 : 91
Enter the score of student no 3 : 64
Enter the score of student no 4 : 51
Enter the score of student no 5 : 43

Grades of students

student No 1 : B
student No 2 : A
student No 3 : C
student No 4 : D
student No 5 : F
```

- Question 5

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q5.exe
Enter element 1 : 1
Enter element 2 : 4
Enter element 3 : 6
Enter element 4 : 5
Enter element 5 : 1
Enter element 6 : 6
Enter element 7 : 9
Enter element 8 : 3
Enter element 9 : 5
Enter element 10 : 4

Distinct numbers in the list you entered : {1,4,6,5,9,3}
The number of distinct numbers in the list you entered : 6
```

- Question 6

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q6.exe
Enter element 1 : 18
Enter element 2 : 16
Enter element 3 : 50
Enter element 4 : 64
Enter element 5 : 2
Enter element 6 : 76
Enter element 7 : 42
Enter element 8 : 37
Enter element 9 : 81
Enter element 10 : 9

Unsorted array : {18 ,16 ,50 ,64 ,2 ,76 ,42 ,37 ,81 ,9 }
sorted array : {2 ,9 ,16 ,18 ,37 ,42 ,50 ,64 ,76 ,81 }
-----
Process exited after 69.74 seconds with return value 2
Press any key to continue . . .
```

- Question 7

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q7.exe
Enter element 1 : 6.0
Enter element 2 : 4.4
Enter element 3 : 1.9
Enter element 4 : 2.9
Enter element 5 : 3.4
Enter element 6 : 2.9
Enter element 7 : 3.5
Enter element 8 : 2.3
Enter element 9 : 7.5
Enter element 10 : 4.8

Unsorted array : {6.0 ,4.4 ,1.9 ,2.9 ,3.4 ,2.9 ,3.5 ,2.3 ,7.5 ,4.8 }
sorted array : {1.9 ,2.3 ,2.9 ,2.9 ,3.4 ,3.5 ,4.4 ,4.8 ,6.0 ,7.5 }
-----
Process exited after 38.95 seconds with return value 2
Press any key to continue . . .
```

- Question 8

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q8.exe
Enter the number 1:50
Enter the number 2:2
Enter the number 3:1
Enter the number 4:9
Enter the number 5:0

50,2,1,9,0 the largest possible number is 950210
-----
```

- Question 9

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q9.exe
Enter the start value of range : 10
Enter the end value of range : 20
The number of 2s in given range of integers is 2
-----
```

- Question 10

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q10.exe
Enter a string : eat
resault : eating

Enter a string : string
resault : stringly
-----
```

- Question 11

```
G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q11.exe
Enter your registration number : s/09/867
-----VALIDATING REGISTRATION NUMBER : S/09/867-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies
-----THE REGISTRATION NUMBER IS VALID-----
```

```
Enter your registration number : E/08/465
-----VALIDATING REGISTRATION NUMBER : E/08/465-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition doesn't satisfy : The first letter isn't 'S'
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies
-----THE REGISTRATION NUMBER IS NOT VALID-----
```

```

Enter your registration number : S0967854

-----VALIDATING REGISTRATION NUMBER : S0967854-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition doesn't satisfy : There isn't 2 '/'s
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition doesn't satisfy : There isn't batch of student in between the two æ/Æs
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies

-----THE REGISTRATION NUMBER IS NOT VALID-----

```

```

Enter your registration number : S/096/76

-----VALIDATING REGISTRATION NUMBER : S/096/76-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition doesn't satisfy : There isn't batch of student in between the two æ/Æs
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition doesn't satisfy : No integer representation

-----THE REGISTRATION NUMBER IS NOT VALID-----

```

```

Enter your registration number : S//09475

-----VALIDATING REGISTRATION NUMBER : S//09475-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition doesn't satisfy : There isn't batch of student in between the two æ/Æs
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies

-----THE REGISTRATION NUMBER IS NOT VALID-----

```

```

Enter your registration number : S//8/564

-----VALIDATING REGISTRATION NUMBER : S//8/564-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition doesn't satisfy : There isn't 2 '/'s
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies

-----THE REGISTRATION NUMBER IS NOT VALID-----

```

```

Enter your registration number : S/0A/564

-----VALIDATING REGISTRATION NUMBER : S/0A/564-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies

-----THE REGISTRATION NUMBER IS VALID-----

```

```

Enter your registration number : S/A9/864

-----VALIDATING REGISTRATION NUMBER : S/A9/864-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition satisfies

-----THE REGISTRATION NUMBER IS VALID-----

```

```

Enter your registration number : S/09/67H
-----VALIDATING REGISTRATION NUMBER : S/09/67H-----
Condition 01 : There are exactly 8 characters
                The first condition satisfies
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition satisfies
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition satisfies
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition doesn't satisfy : No integer representation
-----THE REGISTRATION NUMBER IS NOT VALID-----


```

```

Enter your registration number : S@09H4N
-----VALIDATING REGISTRATION NUMBER : S@09H4N-----
Condition 01 : There are exactly 8 characters
                The first condition doesn't satisfy : There isn't 8 characters
Condition 02 : First letter should be 'S'
                The second condition satisfies
Condition 03 : There should be exactly two '/'s.
                The third condition doesn't satisfy : There isn't 2 '/'s
Condition 04 : The year is represented by two digits in between two '/'s
                The forth condition doesn't satisfy : There isn't batch of student in between the two æ/Æs
Condition 05 : Last three digits immediately after the sencond slath represents the student number
                The fifth condition doesn't satisfy : No integer representation
-----THE REGISTRATION NUMBER IS NOT VALID-----

```

- Question 12


 G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q12.exe

```

Enter the string : program
String in reverse order : margorp
-----

```

- Question 13

 G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q13.exe

```

Enter the parentheses : {15*(6+9)}
It is a balanced parentheses
-----


```

```

Enter the parentheses : {15*(9+6}
It is a unbalanced parentheses
-----

```


- Question 14

 G:\UCSC 1st sem\SCS1202_2020\lab sheet 5\201151\201151_Q14.exe

```
phrase : Cut your coat according to the cloth
There is word "cord" in this phrase(letter 17 to 20)
-----
```