

Name :-

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Subject :- ADSA

Lab Assignment 4

Question 1

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PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4\" ; if ($?) { gcc S20230010193_A04.c -o S20230010193_A04 } ; if ($?) { .\S20230010193_A04 }
enter the question you want to run: 1
enter the size of array: 10
enter element in array: 9
7
6
5
0
3
2
1
4
8
sorted array: 0 1 2 3 4 5 6 7 8 9
```

Question 2

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4\" ; if ($?) { gcc S20230010193_A04.c -o S20230010193_A04 } ; if ($?) { .\S20230010193_A04 }
enter the question you want to run: 2
enter the size of array: 10
enter element in array: 99
44
88
102
64
87
645
30
1
25
sorted array: 1 25 30 44 64 87 88 99 102 645
```

Question 3

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4\" ; if ($?) { gcc S20230010193_A04.c -o S20230010193_A04 } ; if ($?) { .\S20230010193_A04 }
enter the question you want to run: 3
enter the size of array: 10
enter element in array: 854
5
210
4
852
652
8
5
544
52
sorted array: 4 52 544 210 5 8 5 854 852 652
```

Question 4

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4\" ; if ($?) { gcc S20230010193_A04.c -o S20230010193_A04 } ; if ($?) { .\S20230010193_A04 }
enter the question you want to run: 4
Enter the numbers that you have to multiply
Number 1: 12345
Number 2: 50401
Answer is 622200345
```

Question 5

```
PS C:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4> cd "c:\IIITS ASSIGNMENTS\Sem 3\ADSA\Assignment 4\" ; if ($?) { gcc S20230010193_A04.c -o S20230010193_A04 } ; if ($?) { .\S20230010193_A04 }
enter the question you want to run: 5
enter value of n to make two n*n matrix: 3
enter a matrix A
A[0][0]: 5
A[0][1]: 4
A[0][2]: 6
A[1][0]: 7
A[1][1]: 8
A[1][2]: 9
A[2][0]: 1
A[2][1]: 2
A[2][2]: 3
enter a matrix B
B[0][0]: 1
B[0][1]: 0
B[0][2]: 0
B[1][0]: 0
B[1][1]: 1
B[1][2]: 0
B[2][0]: 0
B[2][1]: 0
B[2][2]: 1

Result:
5 4 6
7 8 9
1 2 3
```