Name: Akib Reza

ID: 0432220005101061

12A:

Input:

```
12A.c × 12B.c × 12C.c × 12D.c ×
               //Name : Akib Reza
       1
               //ID: 0432220005101061
       2
       3
       4
               #include <stdio.h>
       5
               int main()
       6
                  int arr[2][2];
       8
                  printf("Enter numbers for [2][2] matrix: ");
       9
      10
                  for(int i = 0; i<2; i++)
      11
                    for(int j = 0; j<2; j++ )
      12
      13
      14
                       scanf("%d",&arr[i][j]);
      15
      16
      17
      18
                  printf("The matrix is: \n");
      19
      20
                   for(int i = 0; i < 2; i++)
      21
      22
                    for(int j = 0; j < 2; j++)
      23
      24
                      printf("%d ",arr[i][j]);
      25
      26
                    printf("\n");
      27
      28
      29
```

```
■ "G:\C drive backup 221227\University Assignments\Cse assignment day12\12A.exe"  

Enter numbers for [2][2] matrix: 2 4 5 1
The matrix is:
2 4
5 1

Process returned 0 (0x0) execution time: 7.090 s
Press any key to continue.
```

12B:

Input:

```
12A.c X 12B.c X 12C.c X 12D.c X
                   //Name : Akib Reza
//ID: 0432220005101061
         3
                    #include <stdio.h>
         4
5
                    int main()
         6
7
                       int arr1[2][2];
         8
                       int arr2[2][2];
                       printf("1st matrix: \n");

for(int i = 0; i<2; i++)
       10
       11
12
                          for(int j = 0; j<2; j++ )
       13
       14
                              scanf("%d",&arr1[i][j]);
       15
       16
17
18
                       printf("2nd matrix: \n");

for(int i = 0; i<2; i++)
       19
       20
                          for(int j = 0; j<2; j++ )
       21
22
23
24
25
                              scanf("%d",&arr2[i][j]);
                       printf("Addition: \n");

for(int i = 0; i<2; i++)
       26
27
28
29
30
                           for(int j = 0; j<2; j++ )
                              printf("%d ",arr1[i][j]+arr2[i][j]);
       31
       32
                          printf("\n");
       33
       34
35
```

```
■ "G:\C drive backup 221227\University Assignments\Cse assignment day12\128.exe" — X

1st matrix:
4 2 1 9
2nd matrix:
2 2 4 6
Addition:
6 4
5 15

Process returned 0 (0x0) execution time : 8.332 s

Press any key to continue.
```

12C:

Input:

```
12A.c × 12B.c × *12C.c × 12D.c ×
                         //Name : Akib Reza
//ID: 0432220005101061
                          #include <stdio.h>
                          int main()
           6
7
                             int arr1[2][2];
int arr2[2][2];
printf("Matrix 1 : \n");
for(int i = 0; i<2; i++)
           8
9
         10
11
12
13
14
15
                             for(int j = 0; j<2; j++)
{scanf("%d",&arr1[i][j]);}}
printf("Matrix 2: \n");
for(int i = 0; i<2; i++)
        16
17
18
19
                                  for(int j = 0; j<2; j++ )
{scanf("%d",&arr2[i][j]);}</pre>
                             int x[2][2];
for(int i=0; i < 2; i++)
        20
21
22
23
24
25
26
27
28
29
30
31
32
                                  for(int j=0; j < 2; j++)
                                       printf("After multiplying matrix 1 and matrix 2 : \n");
for(int i = 0; i<2; i++)
                                  for(int j = 0; j<2; j++ )
{printf("%d ",x[i][j]); }
printf("\n");</pre>
        33
34
         35
36
         37
```

```
■ "G:\C drive backup 221227\University Assignments\Cse assignments\cse lab assignment day12\12C.exe" — X

Matrix 1:
5 1 5 2

Matrix 2:
7 8 3 2

After multiplying matrix 1 and matrix 2:
38 42
41 44

Process returned 0 (0x0) execution time: 4.460 s

Press any key to continue.
```

12D:

Input:

```
12A.c × 12B.c × 12C.c × 12D.c ×
              //Name: Akib Reza
              //ID: 0432220005101061
      3
              #include <stdio.h>
      5
              #include <string.h>
              int main()
      6
      8
                char name1[50];
      9
                char name2[50];
     10
     11
     12
     13
                 printf("Enter 1st string: ");
     14
                 scanf("%s",name1);
     15
                 printf("Enter 2nd string: ");
     16
                 scanf("%s",name2);
     17
     18
                 //STRLEN
     19
                 printf("Length of 1st string: %d\n", strlen(name1));
     20
21
22
23
                 printf("Length of 2nd string: %d\n", strlen(name2));
                 //STRCMP
     24
25
                if (strcmp(name1, name2) ==0)
     26
                   printf("The strings are same.\n");
     27
     28
     29
                   printf("The strings are different.\n");
     30
     31
     32
                 //STRCAT
     33
34
                printf("After concatenation: %s",strcat(name1,name2));
     35
```

```
■ "G:\C drive backup 221227\University Assignments\Cse assignment day12\12D.exe" — X

Enter 1st string: lionel

Enter 2nd string: messi

Length of 1st string: 6

Length of 2nd string: 5

The strings are different.

After concatenation: lionelmessi

Process returned 0 (0x0) execution time: 11.529 s

Press any key to continue.
```