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COURSE NAME: DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS

COURSE CODE: CSA0302

```
Experiment 1: 2D Matrix Add
Code:
#include <stdio.h>
int main() {
  int a[3][3] = {
    {1, 2, 3},
    {4, 5, 6},
    {7, 8, 9}
  };
  int b[3][3] = {
    {9, 8, 7},
    {6, 5, 4},
    {3, 2, 1}
  };
  int sum[3][3];
  int i, j;
  for (i = 0; i < 3; i++) {
    for (j = 0; j < 3; j++) {
       sum[i][j] = a[i][j] + b[i][j];
    }
  }
  printf("\nSum of the two matrices is:\n");
  for (i = 0; i < 3; i++) {
    for (j = 0; j < 3; j++) {
       printf("%d\t", sum[i][j]);
    }
     printf("\n");
```

```
return 0;
}
Coutput:

Sum of the two matrices is:
10 10 10
10 10 10
10 10
10 10
=== Code Execution Successful ===
```