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2020BTEIT0050
Course- PC

Matrix Addition Sequential code

```
#include <stdio.h>


int main() {
    int ROWS, COLS;

    printf("Enter number of rows and coloumns in the matrix");
    scanf("%d%d",&ROWS,&COLS);

    int matrix1[ROWS][COLS], matrix2[ROWS][COLS], sum[ROWS][COLS];
    int i, j;


    printf("Enter the elements of the first matrix: \n");
    for(i = 0; i < ROWS; i++) {
        for(j = 0; j < COLS; j++) {
            scanf("%d", &matrix1[i][j]);
        }
    }

    printf("Enter the elements of the second matrix: \n");
    for(i = 0; i < ROWS; i++) {
        for(j = 0; j < COLS; j++) {
            scanf("%d", &matrix2[i][j]);
        }
    }

    for(i = 0; i < ROWS; i++) {
        for(j = 0; j < COLS; j++) {
            sum[i][j] = matrix1[i][j] + matrix2[i][j];
        }
    }

    printf("The sum of the two matrices is: \n");
    for(i = 0; i < ROWS; i++) {
        for(j = 0; j < COLS; j++) {
```

```
            printf("%d ", sum[i][j]);
        }
        printf("\n");
    }

    return 0;
}
```

OUTPUT: