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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]);
        }
    }

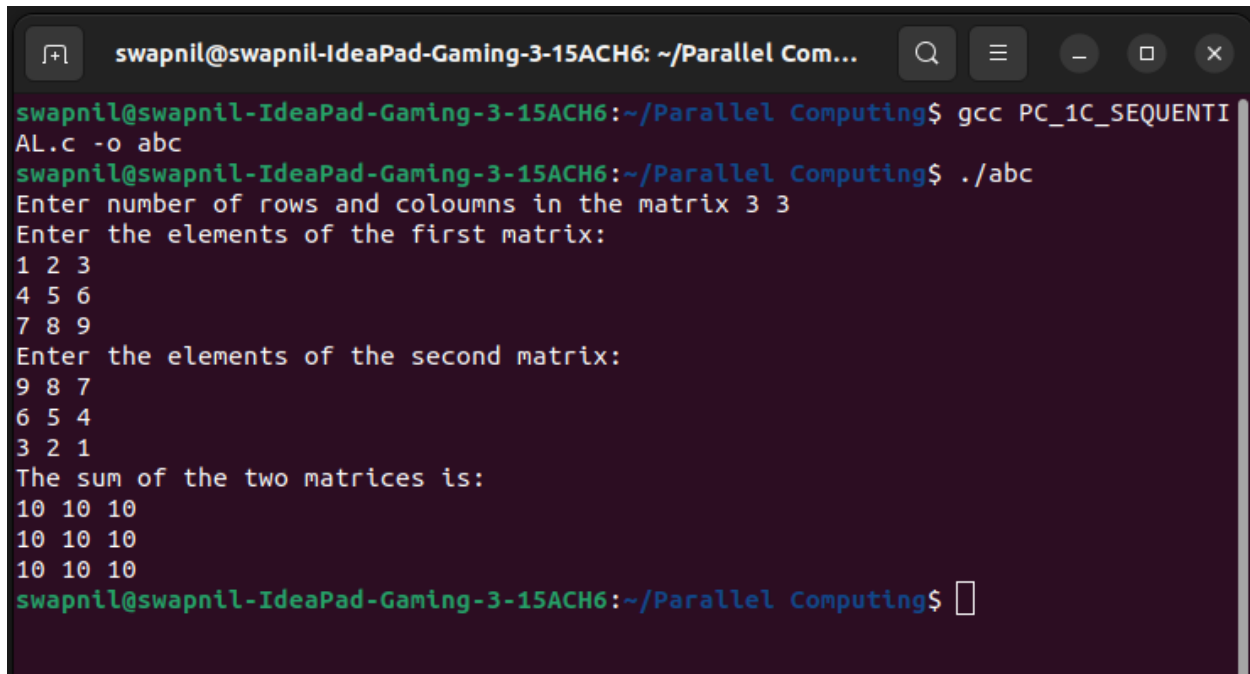
    printf("Enter the elements of the second matrix: \n");
    for(i = 0; i < ROWS; i++) {
        for(j = 0; j < COLS; j++) {
            scanf("%d", &matrix2[i][j]);
        }
    }

    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:



```
swapnil@swapnil-IdeaPad-Gaming-3-15ACH6: ~/Parallel Computing$ gcc PC_1C_SEQUENTI  
AL.c -o abc  
swapnil@swapnil-IdeaPad-Gaming-3-15ACH6:~/Parallel Computing$ ./abc  
Enter number of rows and coloumns in the matrix 3 3  
Enter the elements of the first matrix:  
1 2 3  
4 5 6  
7 8 9  
Enter the elements of the second matrix:  
9 8 7  
6 5 4  
3 2 1  
The sum of the two matrices is:  
10 10 10  
10 10 10  
10 10 10  
swapnil@swapnil-IdeaPad-Gaming-3-15ACH6:~/Parallel Computing$
```