

SUM OF MATRICES

```
#include <stdio.h>
int main()
{
    int m, n, c, d, first[10][10], second[10][10], sum[10][10];
    clrscr();
    printf("Enter the number of rows and columns (n)");
    scanf("%d %d", &m, &n);
    printf("Enter the elements of first matrix (n)");
    for (c=0; c<m; c++)
        for (d=0; d<n; d++)
            scanf("%d", &first[c][d]);
    printf("Enter the elements of second matrix (n)");
    for (c=0; c<m; c++)
        for (d=0; d<n; d++)
            scanf("%d", &second[c][d]);
    printf("Sum of entered matrices: (n)");
    for (c=0; c<m; c++)
    {
        for (d=0; d<n; d++)
        {
            sum[c][d] = first[c][d] + second[c][d];
            printf("%d\t", sum[c][d]);
        }
        printf("\n");
    }
    getch();
    return 0;
}
```

MAX MARK IN A SUBJECT

classmate

Date _____
Page _____

```
#include <stdio.h>
```

```
int main(void)
```

```
{
```

```
    int marks[3][4], maxmark[3], r, c;
```

```
    for (r=0; r<3; r++)
```

```
    {
```

```
        printf("Enter marks of 4 students in Subject # %d !",
```

```
                (r+1));
```

```
        for (c=0; c<4; c++)
```

```
        {
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```
            scanf("%d", &marks[r][c]);
```

```
        }
```

```
    }
```

```
    for (r=0; r<3; r++)
```

```
    {
```

```
        maxmark[r]=0;
```

```
        for (c=0; c<4; c++)
```

```
        {
```

```
            if (marks[r][c] > maxmark[r])
```

```
            {
```

```
                maxmark[r] = marks[r][c];
```

```
            }
```

```
        }
```

```
    }
```

```
    printf(" --- Max - Marks --- \n");
```

```
    for (r=0; r<3; r++)
```

```
    {
```

```
        printf("Max mark in Subject # %d is %d\n", (r+1),
```

```
                maxmark[r]);
```

```
    }
```

```
    getch();
```

```
    return 0;
```

```
}
```

#TRANSPOSE OF A MATRIX

#include <stdio.h>

int main()

{

int a[10][10], transpose[10][10], r, c;

printf("Enter number of rows and columns:");

scanf("%d %d", &r, &c);

printf("\nEnter matrix elements:\n");

for (int i=0; i<r; ++i)

{ for (int j=0; j<c; ++j)

{

printf("Enter element a[%d][%d]:", i+1, j+1);

scanf("%d", &a[i][j]);

}

printf("\nEnter matrix:\n");

for (int i=0; i<r; ++i)

{ for (int j=0; j<c; ++j)

{

printf("%d", a[i][j]);

if (j == c-1)

printf("\n");

}

for (int i=0; i<r; ++i)

{ for (int j=0; j<c; ++j)

{

transpose[j][i] = a[i][j];

}

printf("\nTranspose of the matrix:\n");

for (int i=0; i<c; ++i)

{ for (int j=0; j<r; ++j)

{

printf("%d", transpose[i][j]);

if (j == r-1)

printf("\n");

{

getch();

return 0;

{