## Finding row sum and column sum:

```
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#include<stdio.h> #include<conio.h>
void main()
int a[10][10],nr,nc, r,c,rs,cs; clrscr();
printf("Enter no of rows and columns ");scanf("%d %d",&nr, &nc);
if(nr==nc){ printf("Enter %d elements\n", nr*nc);
for(r=0;r<nr;r++) for(c=0;c<nc;c++)scanf("%d",&a[r][c]);
for(r=0;r<nr;r++)</pre>
{for(rs=cs=c=0; c<nc;c++)
{rs+=a[r][c]; cs+=a[c][r];} a[r][c]=rs; a[c][r]=cs;
puts("Elements ");
for(r=0;r<=nr;r++){for(c=0;c<=nc;c++)
{if(r==nr&&c==nc); else printf("%4d",a[r][c]);}printf("\n");
}else printf("rows and columns should be same");
getch();
                                                        Enter no of rows and columns 2 2
Enter 4 elements
1 2
3 4
Elements
  1
          3
      2
  3
      4
  4
      6
                                                      120%
Page: 1 of 1 Words: 6
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```

## Finding n student tot, avg and result

```
#include<stdio.h> #include<conio.h>
void dummy(float a){float *p = &a; }
void main()
{
float a[10][10]={0}; int n, r,c,i; char name[10][20]; clrscr();
printf("Enter no of students "); scanf("%d",&n);
for(r=0;r<n;r++)
printf("Enter %d stu id, name, marks in 6 submarks ",r+1);
scanf("%f %s",&a[r][0],name[r]);
for(c=1;c<=6;c++){scanf("%f",&a[r][c]);a[r][7]+=a[r][c];if(a[r][c]
<35)
a[r][9]=-1;}
```

```
a[r][8]=a[r][7]/6;
puts("Id\tName\tTel Eng Hin Mat Sci Soc Tot
Avg\tPass/Fail");
for(r=0;r<n;r++)
printf("%.0f\t%s\t",a[r][0],name[r]);
for(i=1;i<=7;i++)printf("%.0f ",a[r][i]);
printf("%.2f\t",a[r][i]);
if(a[r][9]==0)puts("Pass");else puts("Fail");
}
getch();
}
```

```
_ 0 ×
Enter no of students 3
Enter 1 stu id, name, marks in 6 submarks 1 abhi 77 67 56 65 99 87
Enter 2 stu id, name, marks in 6 submarks 2 bablu 34 56 54 45 44 35
Enter 3 stu id, name, marks in 6 submarks 3 pandu 44 55 66 56 45 46
             Tel Eng Hin Mat Sci Soc Tot Avg Pass/Fail
                     56 65
                                  451
       abhi
                67
                           99
                               87
                                       75.17
                                                 Pass
       bablu
              34
                 56
                     54
                        45
                           44
                               35
                                   268 44.67
                                                 Fail
       pandu
             44 55
                    66
                        56 45 46
                                   312
                                       52.00
                                                 Pass
7:08 PM
```

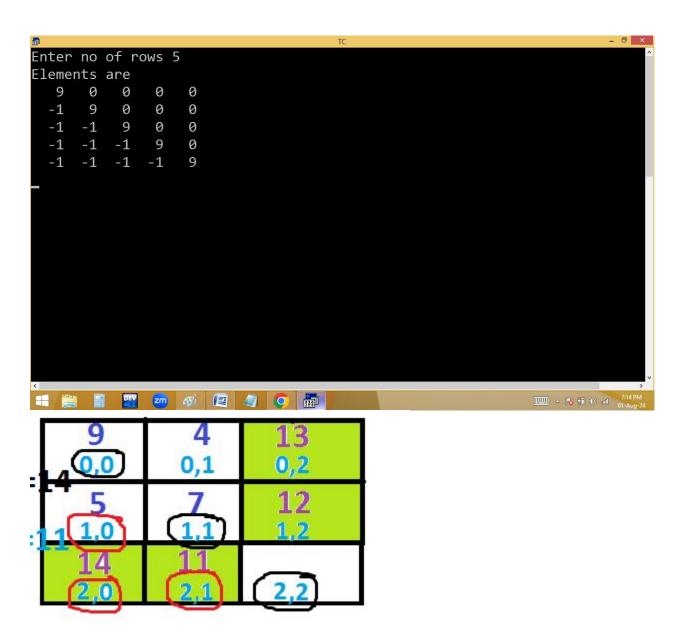
## Printing below output using a n\*n matrix:

9 0 0

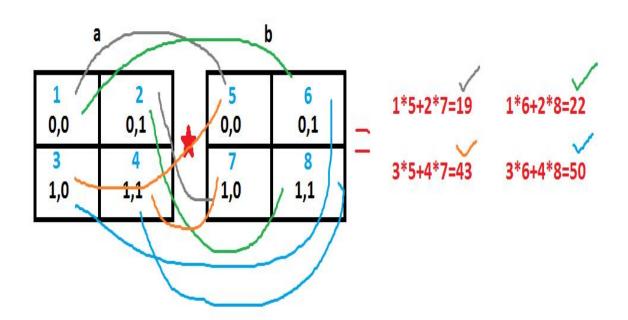
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```
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#include<stdio.h>
#include<conio.h>
void main()
int a[10][10],n,r,c;
clrscr();
printf("Enter no of rows "); scanf("%d",&n);
puts("Elements are ");
for(r=0;r<n;r++)
for(c=0;c<n;c++)
if(r==c)a[r][c]=9; else if(r>c)a[r][c]=-1; else a[r][c]=0;
printf("%4d",a[r][c]);
printf("\n");
getch();
- Table 101-Aug-
Enter no of rows 3
Elements are
  9
      0
         0
 -1
     9
         0
 -1
    -1
         9
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```



Matrix multiplication:



```
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#include<stdio.h> #include<conio.h>
void main()
int a[10][10],b[10][10],nr,nc,r,c,s,k; clrscr();
printf("Enter no of rows and columns "); scanf("%d%d",&nr,&nc);
printf("Enter %d elements for 1st matrix",nr*nc);
for(r=0;r<nr;r++)for(c=0;c<nc;c++)scanf("%d",&a[r][c]);
printf("Enter %d elements for 2nd matrix",nr*nc);
for(r=0;r<nr;r++)for(c=0;c<nc;c++)scanf("%d",&b[r][c]);
puts("Result Elements are ");
for(r=0;r<nr;r++)
{for(c=0;c<nc;c++)
printf("%4d",s);
printf("\n");
getch();
Enter no of rows and columns 2 2
Enter 4 elements for 1st matrix1 2 3 4
Enter 4 elements for 2nd matrix5 6 7 8
Result Elements are
 19 22
 43 50
```

