COMPUTER ASSIGNMENT

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S2 CSE

Roll no. 23

Program 1

Output 1

```
Order of the matrix (m x n): 3 3
Enter the elements:1 2 3 4 5 6 7 8 9
Fibonacci numbers in the matrix
1 at [0][0]
2 at [0][1]
3 at [0][2]
5 at [1][1]
8 at [2][1]
```

Program 2

```
#include<stdio.h>
void main()
{
    int rank=1,i,j,max,total[50],a,t,n;
    struct student
    {       int rno;
            char name[20];
            int m1,m2,m3,m4;
    }s[150],temp;
    printf("How many students:");
    scanf("%d",&n);
    for(i=0;i<n;i++)</pre>
```

```
{
        printf("STUDENT %d",i+1);
        printf("\nName \t:");
        scanf(" %[^\n]",s[i].name);
        printf("\nRoll No. \t:");
        scanf(" %d",&s[i].rno);
        printf("\nSubject 1 \t:");
        scanf(" %d",&s[i].m1);
        printf("\nSubject 2 \t:");
        scanf(" %d",&s[i].m2);
        printf("\nSubject 3 \t:");
        scanf(" %d",&s[i].m3);
        printf("\nSubject 4 \t:");
        scanf(" %d",&s[i].m4);
        total[i]=s[i].m1+s[i].m2+s[i].m3+s[i].m4;}
printf("\nMax. marks : ");
        scanf("%d",&max);
a=0.4*max;
for(i=0;i< n-1;i++)
        for(j=0;j< n-i-1;j++)
        if(total[j]<total[j+1])</pre>
```

```
t=total[j];

total[j]=total[j+1];

total[j+1]=t;

temp=s[j];

s[j]=s[j+1];

s[j+1]=temp;}}}
```

Output 2

How many students:3 STUDENT 1

Name :Jacob

Roll No. :24

Subject 1 :98

Subject 2 :87

Subject 3:76

Subject 4 :65 STUDENT 2 Name :Zeref

Roll No. :304

Subject 1 :100

Subject 2 :100

Subject 3 :100

Subject 4 :100 STUDENT 3

Name :George

Roll No. :123

Subject 1 :45

Subject 2 :78

```
Subject 3
             :76
Subject 4
             :90
Max. marks: 100
1 304 Zeref 4001
24 Jacob 3262
123 George 289
Program 3
#include<stdio.h>
#define MAX 100
void bubblesort(int a[][MAX], int m, int n,int k) {
        int i, j, temp;
        for (i = 0; i < n-1; i++) {
        for (j = 0; j < n-i-1; j++) {
                if (a[k][j] > a[k][j+1]) {
                temp = a[k][j];
                a[k][j] = a[k][j+1];
                a[k][j+1] = temp;
       }
       }
void printMatrix(int a[][MAX], int m, int n) {
        int i, j;
        for (i = 0; i < m; i++) {
        for (j = 0; j < n; j++) {
        printf("%d ", a[i][j]);
        }
        printf("\n");
}
void readMatrix(int a[][MAX], int m, int n) {
        int i, j;
printf("Input your elements :");
        for (i = 0; i < m; i++)
        for (j = 0; j < n; j++)
        scanf("%d", &a[i][j]);
```

```
}
void main() {
    int a[MAX][MAX], m, n, k, i;
    printf("Enter the number of rows and columns: ");
    scanf(" %d %d", &m, &n);
    readMatrix(a, m, n);
    for(k = 0; k < m; k++) {
        bubblesort(a, m, n,k);
}
    printf("Sorted Matrix: \n");
    printMatrix(a, m, n);
}</pre>
```

Output 3

Enter the number of rows and columns: 3 3

Input your elements :12 3 434 4 45 323 32 4 454

Sorted Matrix:

3 12 434

4 45 323

4 32 454