

Week: 13

13) a) Write a C program to Display array elements using calloc() function.

AIM:

To write a C program to find sum of n elements entered by user. To perform this program, allocate memory dynamically using calloc() function.

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

int main()
{
    int i, n;
    int *a;

    printf("Number of elements to be entered:");
    scanf("%d",&n);

    a = (int*)calloc(n, sizeof(int));
    printf("Enter %d numbers:\n",n);
    for( i=0 ; i < n ; i++ )
    {
        scanf("%d",&a[i]);
    }

    printf("The numbers entered are: ");
    for( i=0 ; i < n ; i++ )
    {
        printf("%d ",a[i]);
    }

    return(0);
}
```

Output:

```
Number of elements to be entered:3
Enter 3 numbers:
22
55
14
The numbers entered are: 22 55 14
```

Record at least 3 results

Signature of faculty with Date

13) b) Write a C Program to Calculate Total and Percentage marks of a student using structure.

Program:

```
#include<stdio.h>
#include<conio.h>
struct student
{
    int rl;
    char nm[20];
    int m1;
    int m2;
    int m3;
    int t;
    float per;
};
void main()
{
    struct student a;
    clrscr();
    printf(" Enter RollNo, Name amd three sub marks\n");
    scanf("%d%s%d%d%d",&a.rl,&a.nm,&a.m1,&a.m2,&a.m3);
    a.t=a.m1+a.m2+a.m3;
    a.per=a.t/3.0;
    printf("rollno=%d\n",a.rl);
    printf("Name=%sk\n",a.nm);
    printf("m1=%d\n",a.m1);
    printf("m2=%d\n",a.m2);
    printf("m3=%d\n",a.m3);
    printf("total=%d\n",a.t);
    printf("per=%f\n",a.per);
    getch();
}
```

Input:

Enter RollNo, Name and three sub marks

12 rama 30 40 50

Output:

rollno=12

Name=rama

m1=30

m2=40

m3=50

total=120

per=40.000000