

### Aim:

Write a C program to create dynamic memory allocation using calloc( )

### Source Code:

calloc.c

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

int main() {
    int n,i,*p,sum=0,k=0;
    printf("Enter the number of elements: ");
    scanf("%d",&n);
    p=(int *)calloc(n,sizeof(int));
    if(p==NULL)
    {
        printf("Unable to allocate memory\n");
        exit(0);
    }
    for(i=0;i<n;i++)
    {
        printf("Enter element %d: ",k+1);
        scanf("%d",(p+i));
        sum+=*(p+i);
        k++;
    }
    printf("The sum of the array is %d.\n",sum);
}
```

### **Execution Results - All test cases have succeeded!**

Test Case - 1
User Output
Enter the number of elements: 5
Enter element 1: 1
Enter element 2: 2
Enter element 3: 3
Enter element 4: 4
Enter element 5: 5
The sum of the array is 15.

Test Case - 2
User Output
Enter the number of elements: 4
Enter element 1: 11
Enter element 2: 22
Enter element 3: 33
Enter element 4: 44
The sum of the array is 110.