Aim:

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

Source Code:

calloc.c

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

int main() {
int *p,n,a[10],sum=0,i,j=1;
printf("Enter the number of elements: ");
scanf("%d",&n);
p=(int*)calloc(n,sizeof(int));
for(i=0;i<n;i++)
{
   printf("Enter element %d: ",j);
   scanf("%d",p+i);
   sum=sum+*(p+i);
   j++;
}
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.