2022-2026-CSE-B

## 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 *p,n,sum=0,i,j=1,a[10];
   printf("Enter the number of elements: ");
   scanf("%d",&n);
   p=(int *)calloc(n,sizeof(int));
   for(i=1;i<=n;i++)</pre>
      printf("Enter element %d: ",i);
      scanf("%d",p+i);
      sum=sum+*(p+i);
      j++;
   printf("The sum of the array is %d.\n",sum);
    // get number of elements from user
    // allocate memory for array using calloc()
    // check if memory allocation was successful
    // get input values for array from user
    // perform operation on array values
    // print out the sum of the array values
    // free memory allocated for array
}
```

## 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.	
,	