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| **Program No**: **09 Date:20/07/2021**  **SUM AND AVERAGE OF**  **ELEMENTS IN AN ARRAY**  **AIM :** To write a program to print the sum and average of elements in an array.  **ALGORITHM:**    1.Start  2. Get the size of array from the user  3. Get the elements in an array from the user by using a loop.  4.Print the array elements  5.Intialize sum as zero and add each element of array one by one to sum.  6. Print the value of sum  7.Initialize average as zero and obtain the value of average by dividing  Sum and the size of array  8. Print average  9. Stop  **PROGRAM:**   |  | | --- | | **/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **Title: SineAndCosineSeries**  **Done by : Deepak M S**  **Date: 13/07/2021**  **Aim: To write a program to print the sine and cosine series.**  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/**  **#include <stdio.h>**  **int main()**  **{**  **//variable declaration and initialization**  **int array[50];**  **int i,size;**  **float sum=0 , avg=0;**    **//get the size of array from the user**  **printf("Enter the size of the array:");**  **scanf("%d",&size);**    **//get the elements**  **printf("Enter the elements of array");**  **for(i=0;i<size;i++){**  **scanf("%d",&array[i]);**  **}**    **//print the array elements**  **printf("Elements in array:");**  **for(i=0;i<size;i++){**  **printf("\t%d",array[i]);**  **}**    **//find the sum**  **for(i=0;i<size;i++){**  **sum += array[i];**  **}**  **//print sum**  **printf("\nSum of Elements in array is : %.2f",sum);**    **//find average**  **avg = sum/size;**    **//print average**  **printf("\nAverage of Elements in array is : %.2f",avg);**  **return 0;**  **}** |   **SAMPLE OUTPUT:**    **RESULT:**  Program run successfully and able to get the correct output |