1. **Write A program containing the following** 
   1. A function called **Calculatesum** to calculate the sum of numbers sent as a parameter (stored in array) and return the result.
   2. A function called **CalculateAverage** to calculate the average of numbers sent as a parameter (stored in array) and return the result.
   3. A main function that display a message and ask the user to enter how many numbers he will enter and to enter the numbers
2. Write a function Number\_type. The function should output the number(given as parameter) and message saying whether the number is positive, negative, or zero. Test your function and show the results.
3. Perform the following tasks: **write this class in your program**

class date

{ int day; // Day of the Month

int month; // Month of the year

int year; // Year

}

All this variables are private

In Clint class : Create object called today and sit it with today date then Print the result.

Make any necessary changes you need to the class.

1. Continue on the same program and Perform the following tasks
   1. Write a 3 **private functions :**
      * **Boolean Test\_Day** function that verifies that the day entered is valid .The function should return a true if the day is valid or a false if the day is invalid.
      * **Write a similar function** that verifies that the **month** entered is between 1 and 12. The function should return a true if the data is valid, otherwise it should return a false.
      * **Write a similar function** that verifies that the **year** entered . if it is between 1990 and 2015. The function should return a true if the data is valid, otherwise it should return a false.
   2. set() function:

It will call all the three previous functions to test the given parameters it will return false (and not carry out the data setting all will be zeros 0) if at least one of these three new functions does not return a true .otherwise it will return true and set the variables with a given values .

HINT:

Set (day ,month, year){

If (Test\_Day and Test\_month and test\_year)

Return **true** and set variables with given values

Else **return** false and set variables to 0}

* 1. Run the main() function with dates(dd/mm/yyy) 02/30/2000, 01/3/1989, 60/30/1999 and 13/01/2000 to see whether it works properly.