Assignment_2

Write following C++ programs as per given instructions.

1. Write a C++ program to perform following task.
    a. Create a 2D **integer** array of 3 columns & 4 rows and initially, set all values to 0
    b. User is able to enter integer values only and the maximum no. of elements is 12.
        i. But whenever user enters (-1) before filling the entire 2D array then program should stop taking inputs.
        ii. inform user how many values already inserted in each turn
    c. Once data entry process is over, print all values of the array
    d. Find the maximum & minimum values and print them
        i. (-1) & (0) are not to be consider as minimum values
    e. Calculate the average of only the entered values

2. Write a program to count number of words in a user entedred string.
    a. (Hint: use C-Style String to store user input value.)

3. Create a 2D character array (C-Style String type) (5 rows & 10 columns)
    a. Store "Yamaha", "Honda", "Benz", "Tata", "Suzuki" strings
    b. Print base memory address without using address (&) operator (See image below)
    c. Print each row values using a for loop (See image below)

```
chArray = 00A8F788
chArray[0] = Yamaha
chArray[1] = Honda
chArray[2] = Benz
chArray[3] = Tata
chArray[4] = Suzuki
```

    d. Print each element using two for loops, & you must print **only** not null values (See image below)

```
chArray[0][0] = Y
chArray[0][1] = a
chArray[0][2] = m
chArray[0][3] = a
chArray[0][4] = h
chArray[0][5] = a
chArray[1][0] = H
chArray[1][1] = o
chArray[1][2] = n
chArray[1][3] = d
chArray[1][4] = a
```

    ....
    ....

…

4. User will enter long text with colon separated. *example Book:Pen:Pencil:Table:Desk*
    a. Use String object to store user input value (string str)
    b. You must print the values one after another, after splitting the string using delimiter (:)
        Book
        Pen
        Pencil
        …
    c. All letters should be UPPERCASE
    d. Hint:
        i. You can use substring () & find () string functions support
        ii. You can use while loop support