**ASSIGNMENT#03**

CSC103-Programming Fundamentals



Submitted by:

**AOUN-HAIDER**

**FA21-BSE-133**

**A**

Submitted to:

**Mr. Abdul Karim Shahid**

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Q: Write a program which should create an integer array, marks, to get 5 subject marks of a student from the user. Use following functions:

1) void getmarks(int \*marks, int size);

use this function to get marks from the user. Do not use index number to get marks in th array. Use \* (dereferencing) operator to get values.

2) int totalmakrs(int \*marks, int size);

This function should calculate and return total marks to main function. Use \* operator with marks to calculate total.

3) void showmarks(int \*marks,int size);

to show marks on the screen. Use \* to print values on the screen.

First of all, create an integer array of 5 elements in the main function then call getmarks function. After that call showmarks function then totalmarks function in the main. Print total on the screen. Calculate and print average marks in main function. Repeat the program if user wants to repeat it.

**#include<stdio.h>**

**void getmarks(int \*marks,int size)**

**{**

**int i;**

**for (i=0 ; i<5 ; i++){**

**printf("Enter marks of subject %d ",i+1);**

**scanf("%d",&\*marks+i);**

**}**

**printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**}**

**int totalmarks(int \*marks,int size)**

**{**

**int i,total=0;**

**for (i=0 ; i<5 ; i++){**

**total += \*(marks+i);**

**}**

**return total;**

**}**

**void showmarks(int \*marks,int size)**

**{**

**int i,j;**

**printf("\t%35s\t%20s\t","Subject no.","Obtained marks");**

**for(i=0 ; i<5 ; i++){**

**printf("\n%37d%25d",i+1,\*(marks+i));**

**}**

**printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

**}**

**int main()**

**{**

**int arr[5],i,total,choice;**

**float avg;**

**printf("Enter -1 to end(any other to continue): ");**

**scanf("%d",&choice);**

**while (choice!=-1){**

**getmarks(arr,5);**

**showmarks(arr,5);**

**printf("\nTotal marks : %d",totalmarks(arr,5));**

**avg = (totalmarks(arr,5)/5);**

**printf("\nAverage marks: %.2f\n\n",avg);**

**printf("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n");**

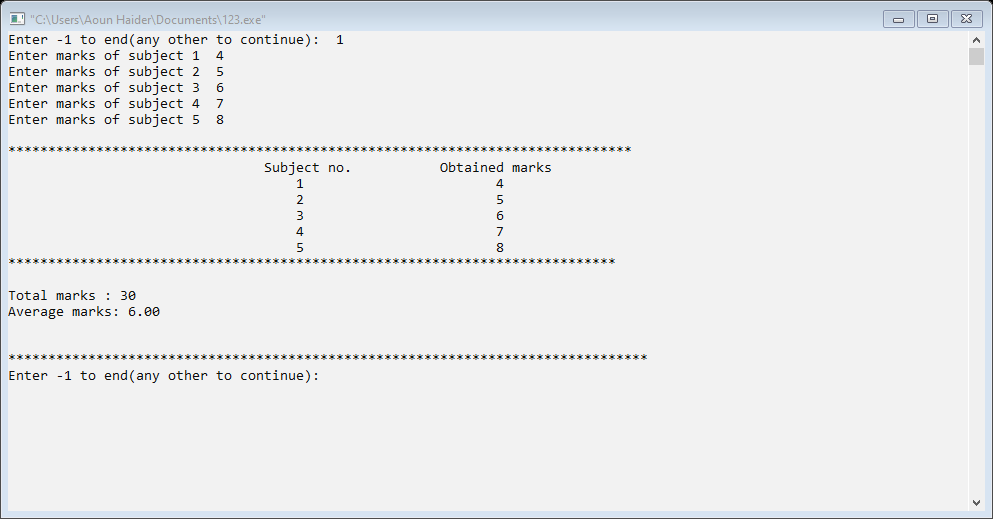
**printf("Enter -1 to end(any other to continue): ");**

**scanf("%d",&choice);**

**}**

**}**

**OUTPUT:**

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