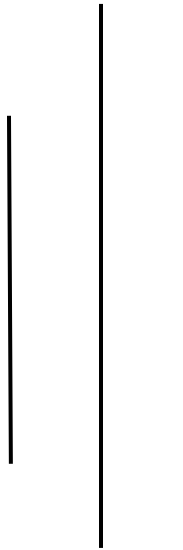




# SHAHD SMARAK COLLEGE

Kirtipur, Kathmandu



*Assignment No. 5 of C programming*

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2<sup>nd</sup> semester

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## Q.1 Use array to store grades of a student of 8 subjects and calculate its percentage.

### Program

```
Untitled1.cpp  Untitled2.cpp
1  #include<stdio.h>
2  #include<conio.h>
3  main ()
4  {
5      int name, Maths, Science, Social, English, Computer, EPH, Nepali, Account, percentage ;
6      printf("Enter a name : \n");
7      scanf("%d", &name);
8      printf("Enter grades of 8 subjects : \n");
9      scanf("%d%d%d%d%d%d%d", &Maths, &Science, &Social, &English, &Computer, &EPH, &Nepali, &Account);
10     percentage = (Maths + Science + Account + English + Computer + EPH + Nepali + Account)\ 800 * 100;
11     if (percentage > 100)
12     {
13         printf("Invalid");
14     else if percentage >= 60
15         printf("Grade A \n");
16     else if percentage >= 40
17         printf("Grade B \n");
18     else
19         printf("Grade C \n");
20     }
21     return 0;
22 }
```

### Output

## Q.2 Program to count the no. of positive and negative numbers.

### Program

```
Untitled1.cpp  Untitled2.cpp
1  #include<stdio.h>
2  main()
3  {
4      int a[50], n, count_neg=0, count_pos=0, i;
5      printf("Enter the size of the array\n");
6      scanf("%d", &n);
7      printf("Enter the element of the array\n");
8      for (i=0; i<n; i++);
9      scanf("%d", &a[1]);
10     for (i=0; i<n; i++);
11     {
12         if (a[1]>0)
13             count_neg++;
14         else
15             count_pos++;
16     }
17     printf("There are %d negative numbers in the array\n", count_neg);
18     printf("There are %d positive numbers in the array\n", count_pos);
19 }
```

### Output

```
C:\Users\amirm\Desktop\Untitled2.exe
Enter the size of the array
5000
Enter the element of the array
30
There are 1 negative numbers in the array
There are 0 positive numbers in the array

-----
Process exited after 3.895 seconds with return value 0
Press any key to continue . . .
```