

2.2 The following program first reads four input marks and then displays the computed total and average mark.

```
/* This program reads the marks of four students and prints
   the total and average of the marks. */

#include <stdio.h>

main (void)
{
    int Mark1;
    int Mark2;
    int Mark3;
    int Mark4;
    int Total;
    float Average;

    printf("\nWelcome. This program finds the total");
    printf(" and average of four input marks.\n\n");

    printf("Please input the first mark (0 - 100) : ");
    scanf("%d", &Mark1);
    printf("Please input the second mark (0 - 100) : ");
    scanf("%d", &Mark2);
    printf("Please input the third mark (0 - 100) : ");
    scanf("%d", &Mark3);
    printf("Please input the fourth mark (0 - 100) : ");
    scanf("%d", &Mark4);

    Total = Mark1 + Mark2 + Mark3 + Mark4;
    Average = (float)Total/4;
    printf("\n");
    printf("The input four marks are \n");
    printf("\t%5d\t%5d\t%5d\t%5d", Mark1, Mark2, Mark3, Mark4);

    printf("\n");
    printf("The total of the four marks %8d\n", Total);
    printf("The average of the four marks %6.1f\n", Average);

}
```

Sample running:

Welcome. This program finds the total and average of four input marks.

Please input the first mark (0 - 100) : **90**<CR>
Please input the second mark (0 - 100) : **80**<CR>
Please input the third mark (0 - 100) : **30**<CR>
Please input the fourth mark (0 - 100) : **25**<CR>

The input four marks are

Task : Try to modify the program so that the deviation of each mark from the average will be shown as follows.

The input four marks are
97 36 40 30
The total of the four marks 203
The average of the four marks 50.8

Mark	Deviation
97	46.3
36	-14.8
40	-10.8
30	-20.8