

Worksheet 7

7.1 Try to walkthrough the following program and write down the expected results. Key-in the program and compare the results after execution. This program helps you to understand the use of text file as input.

```
/* This program reads three integers from a data file and finds
   the sum of of them. */
/* Input data file "Infile7-1.dat" */

#include <stdio.h>
#define INFILE "Infile7-1.dat"

int main()
{
    FILE *fpIn;
    int a;
    int b;
    int c;
    int Sum;

    printf("\nWelcome, This program adds three numbers.\n");
    printf("The three numbers are stored in a data file.\n");

    fpIn = fopen(INFILE, "r");
    if (!fpIn)
    {
        printf("\nCould not open file\n");
        exit(1);
    }
    else
    {
        printf("\nData input starts : \n");
        fscanf(fpIn, "%d%d%d", &a, &b, &c);
        Sum = a + b + c;
        printf("\nThe three input numbers are :\t%d\t%d\t%d", a, b, c);
        printf("\nThe total is :\t%d\n\n", Sum);
    }
    printf("Thank you. Have a good day.\n");
    return 0;
}
```

Data file "Infile7-1.dat":

25 36 49

Sample running :

Welcome, This program adds three numbers.
The three numbers are stored in a data file.

Data input starts :