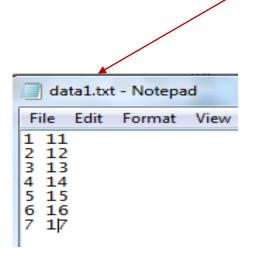
Practice Problem



Output should look like this

```
C:\users\irene1\documents\visual studio 2013\Projects\Example6\
File name: data1.txt
Here's the data that is read from the file:

1 11
2 12
3 13
4 14
5 15
6 16
7 17
The total sum is 126
The total number of points is 14
Press any key to continue . . .
```

- Create the file "data1.txt", with the data in columns (x y)
- Ask the user for the file name, and check for user error (Hint: use NULL)
- Read the x and y variables as arrays from the file
 - Both x and y should be in int format so declare them like this: int x[10], y[10] → 10 would then be the maximum number of pairs that could be read in
 - Use EOF to find the end of the file
- Write the x and y pairs to the screen and to another data file called "OutputData.txt"
- Get the sum of all the values and print "The sum is: sum" to the screen and to the "OutputData.txt" file
- Get the total number of points in the file and print "The total number of points is: number" to the screen and to the "OutputData.txt" file

```
#include <stdio.h>
 #include <stdlib.h>
 int main()
□ {
     int x[10], y[10], status = 2, i = 0, sumArray = 0, numPoints = 0;
     char filename[50];
     //Pointers
    FILE *infile:
     FILE *outfile;
     //Use do while loop to get file name from user
     do
         printf("Enter file name: \n");
         scanf("%s", filename);
         infile = fopen(filename, "r");
     } while (infile == NULL);
     outfile = fopen("OutputData.txt", "w");
     printf("Here's the data that is read from the file: \n\n");
     //Read data, check for EOF, print data
     while (status != EOF && status == 2)
         status = fscanf(infile, "%d %d", &x[i], &y[i]);
         if (status == EOF)
             break:
         printf("%d %d\n\n", x[i], y[i]);
         fprintf(outfile, "%d %d\n\n", x[i], y[i]);
         //Get sum of all the values
         sumArray = sumArray + x[i] + y[i];
         //Get number of x-v pairs of points in the file
         numPoints = numPoints + status;
         i = i + 1:
     //Print sum and number of points
     printf("The total sum is %d\n", sumArray);
     printf("The total number of points is %d\n", numPoints);
     fprintf(outfile, "The total sum is %d\n", sumArray);
     fprintf(outfile, "The total number of points is %d\n", numPoints);
     fclose(infile);
     fclose(outfile);
```