Practice Problem

- Write a program that:
 - Defines an integer i that controls a for loop for 5 iterations
 - Defines a float y that is 5*i
 - Prints the address of the file (the pointer) to the screen
 - Writes to a file using the pointer name "WriteToFile"
 - Saves the file name as "WriteF.txt"
 - For each loop iteration, print the values of i and y to the file (y should have 3 decimal places)
 - For each loop iteration, print the values of i and y to the screen (y should have 3 decimal places)

Open the data file and compare to your output screen!

```
□#include <stdio.h>
 #include <stdlib.h>
□int main()
     double y;
     int i;
     //Create pointer for file
     FILE *WriteToFile;
     //Open file
     WriteToFile = fopen("WriteF.txt", "w");
     //Print address of the file to the screen
     printf("Address of the file is %p\n", WriteToFile);
     for (i = 1; i \le 5; i = i + 1)
         y = 5*i;
         printf("%d %.3lf \n", i, y);
         fprintf(WriteToFile, "%d %.3lf \n", i, y);
     //Close file
     fclose(WriteToFile);
```

Practice Problem

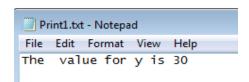
 Create a file ("data3.txt") in the appropriate directory. The file should have data as follows:

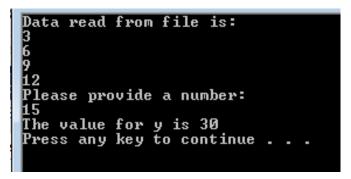
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- Create a program that:
 - Reads data from "data3.txt" (use a for loop) and prints the data to the screen
 - Creates a variable y=2*user_num, where user_num is a value provided by the user
 - Prints "The value for y is (value)" to a file called "Print1.txt" and also to the screen
 - Your output screen should look like this:





```
≡#include <stdio.h>
#include <stdlib.h>
□int main()
 {
     int i, Var3, user_num, y;
     //Pointer for file from which I am reading
     FILE *infile;
     //Pointer for file to which I am printing
     FILE *outfile;
     //Open file to read the data
     infile = fopen("data3.txt", "r");
     //Read data from file and print to screen
     printf("Data read from file is:\n");
     for (i = 1; i <= 4; i++)
         fscanf(infile, "%d", &Var3); //Remember the & to read data
         printf("%d\n", Var3);
     //Close file from which I am reading
     fclose(infile);
     //Ask for user input to create variable user num
     printf("Please provide a number: \n");
     scanf("%d", &user_num);
     y = 2 * user_num;
     //Open file where I am printing
     outfile = fopen("Print1.txt", "w");
     //Print to screen and file
     printf("The value for y is %d\n", y);
     fprintf(outfile, "The value for y is %d\n", y);
     //Close file to which I am printing
     fclose(outfile);
```