CIS 141

# COVER PAGE

INTRODUCTION TO PROGRAMMING

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UNIT 01 EXERCISE



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# NARRATIVE

Your narrative is a "program debrief" for the programming problem. This should be one well formed paragraph that speaks to your personal experience when writing the program.

Include such topics as:

* How long in total did you spend on the problem?
* How difficult was the problem to do?
* What pitfalls did you run into?
* What topics did this problem help you to internalize?
* What did you have to learn on your own in order to solve the problem?
* What ways would you change the assignment to make it more meaningful?

For example, a student wrote a program that prompts and gets numbers from the keyboard and outputs the square of the numbers to the screen until 0 is entered and they wrote:

This program was easy for me overall as I had some programming experience prior to taking this class so I am familiar with the concepts. I spent about an hour writing the code and 5 minutes testing it. The only pitfall I ran into was when I first tried to run it, I got an error. It turned out that I had misspelled input as imput while asking for a number to square. This assignment helped me to consider the importance of proper syntax and basic input and output. I thought this problem was a bit on the easy side even for a first program. I would recommend adding an additional element of difficulty.

# DEFINING DIAGRAM

|  |  |  |
| --- | --- | --- |
| **INPUT** | **PROCESS** | **OUTPUT** |
| Number 1 | Prompt for number 1 | Sum of number 1 and number 2 |
| Number 2 | Get number 1 |  |
|  | Prompt for number 2 |  |
|  | Get number 2 |  |
|  | Add number 1 to number 2 |  |
|  | Display result |  |
|  | Wait for user input to close |  |
|  |  |  |
|  |  |  |

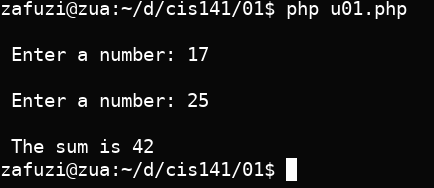
# HIERARCHY CHART

(not required until unit 6 or 7)

NASSI-SCHNEIDERMAN

|  |
| --- |
| PROMPT FOR INPUT |
| GET INPUT |
| PROMPT FOR INPUT |
| GET INPUT |
| ADD INPUTS TOGETHER |
| DISPLAY RESULT |

# PROGRAM OUTPUT



# SOURCE CODE

1. <?php
2. //input vars
3. $nbr1 = 0;
4. $nbr2 = 0;
5. //output vars
6. $sum = 0;
7. printf("\n Enter a number: ");
8. fscanf(STDIN, "%d", $nbr1);
9. printf("\n Enter a number: ");
10. fscanf(STDIN, "%d", $nbr2);
11. $sum = $nbr1 + $nbr2;
12. printf("\n The sum is %d", $sum );
13. fscanf(STDIN, "%s", $buster);
14. ?>

# DESK CHECK

Not needed until unit 02