

LAB #01

SECTION #8

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SUBMISSION DATE: 9/1/2022

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The image shows a Visual Studio Code window with the following components:

- Explorer Panel:** Displays the file structure of the project located at `fall2022\se185\lab01`. The files listed are `in.exe`, `lab01-1.c`, `lab01-input.c`, `Lab01-NETID.png`, `lab01-output.c`, `NETID.txt`, and `out.exe`.
- Editor Panel:** Shows the source code for `lab01-1.c`. The code is a C program with the following structure:

```
1  /*-----  
2  -           SE 185: Lab 01 - Getting to Know the 185 Environment  
3  -   Name:  
4  -   Section:  
5  -   NetID:  
6  -   Date:  
7  -----*/  
8  
9  /*  
10     Here is a block comment.  
11     These lines don't run when you compile or run the code.  
12     I.e., they're the machine doesn't see them, only you.  
13  */  
14  
15  /*-----  
16  -           Includes  
17  -----*/  
18  #include <stdio.h>  
19  
20  /*-----  
21  -           Implementation  
22  -----*/  
23  int main(int argc, char *argv[])  
24  {  
25      // This is a C comment, this line doesn't run in the program  
26  
27      printf("Hello there."); // Modify this line  
28      printf("\n"); // This prints a newline character  
29  
30      return 0; // This is a return statement  
31  }  
32
```
- Terminal Panel:** Shows the execution of the program. The commands and output are:

```
adamjenn@co1318-24 /cygdrive/u/fall2022/se185/lab01  
$ gcc lab01-1.c -o howdy  
  
adamjenn@co1318-24 /cygdrive/u/fall2022/se185/lab01  
$ ./howdy  
Hello there.
```

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- Explorer Panel:** Displays the file structure of the project located at `fall2022\se185\lab01`. The files listed are `in.exe`, `lab01-1.c`, `lab01-input.c`, `lab01-output.c`, `NETID.txt`, and `out.exe`.
- Editor Panel:** Shows the content of `NETID.txt`. The text is as follows:

```
fall2022 > se185 > lab01 > NETID.txt
1
2 Value before input: 0
3
4 Type a number: Type your NetID:
5 Your input was 42 and your ISU email is adamjenn@iastate.edu
```
- Terminal Panel:** Shows the command prompt output. The user is at the prompt `adamjenn@C01318-24 /cygdrive/u/fall2022/se185/lab01` and has executed the command `./out|./in>NETID.txt`. The output is currently blank.

Decimal	Binary	Octal	Hex
1	1	1	1
10	8, 2 1010	8, 12, 2	A <sup>10</sup>
42	32, 8, 2 101010	40, 52, 2	2A <sup>10</sup>
255	128, 64, 32, 16, 8, 4, 2, 1 11111111	142, 56, 7 377	FF <sup>15</sup>
15	8, 4, 2, 1 1111	8, 17	F <sup>15</sup>
119	64, 32, 16, 8, 4, 2, 1 1110111	64, 48 167	DF <sup>15</sup>
129	128 10000001	128, 1 201	81 <sup>1</sup>
147	128, 16, 2 10010011	128, 16, 3 223	93
63	32, 16, 8, 4, 2, 1 111111	56, 7 77	3F <sup>15</sup>
18	16, 2 10010	16, 2 22	12 <sup>2</sup>