EE 1910

Dr. Johnson

Program 1

No capabilities beyond those discussed in class or in the notes are allowed Enter and run the following program as a console program (no MSP432 needed)

```
programming 2.c
 *
   Created on: Nov 16, 2021
 *
       Author: johnsontimoj
 */
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// Programming HW #1
11
// cey 0
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// Program to do some printing
11
// a comment starts with a double slash and goes to the end of the line
// this line adds in our printf() and scanf() functions
#include <stdio.h>
                                    // only needed when printing
// the format for our "main" function is
// int main(void){
// the curly braces operate like parenthesis to collect things together
int main(void){
   // this line is required - more on why later
   setbuf(stdout, NULL);
   // to print out text - you place the text inside double quotes, inside the printf() function
   // note: \n causes a new line to be printed
   // splash
   printf("\n\nProgramming HW 1\n");
   printf("Welcome to my printing program\n\n");
   // create some variables to print out later
   // the format is: type of variable followed by the name of the variable
   int var1;
                // an integer - whole number
   int var2;
   float var3;
                // a floating point number - any number with a decimal point
   float var4:
   // give the variables some values
   // the format is: variable name = value
   // the = is called an assignment
   // we say variable name is assigned the value value
   var1 = 3;
   var3 = 2.5;
    // note var2 and var4 have not been given values yet
```

Enter and run the following program as a console program (no MSP432 needed)

```
// ask the user to provide a value for a variable
   // the process is to ask for an input (printf) followed
   // by reading in a value (scanf)
   // ask for and read in an integer
   // scanf needs to know what kind of value you are giving it
   // format is: ("%type", &variable) inside the scanf() function
   // types are i for int, f for float
    printf("Please enter an integer value for var2: ");
    scanf("%i", &var2);
    printf("Please enter a float value for var4: ");
    scanf("%f", &var4);
   // print out the values
   // format is: ("%type", variable) inside the printf() function
   // note: & is not used in the printf()
    printf("%i\n", var1);
   printf("%f\n", var3);
   // We can include text in our printf function
   // just place it in the double quotes along with the format information
   printf("Var 2 has the value %i\n", var2);
   printf("%f is the value of var4\n", var4);
   // we always end our main function with a return
   // it is traditional to return a 0 if nothing went wrong
   return 0;
}// end main
```

🔝 Problems 🛛 🙇 Tasks	📃 Console 🛛	Properties
<terminated> (exit value: 0) HW_Cons_project.exe [C/C++ Application</terminated>		
Programming HW 1 Welcome to my printing program		
Please enter an integer value for var2: 3 Please enter a float value for var4: 5.7		
2.500000		
Var 2 has the value 3		
5.700000 is the value of var4		