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CMSC 21

March 2, 2022
Assignment 1

1.)

```c
#include <stdio.h>

int main(void)
{

   //text includes good programming practices and tips in the C language
   printf("In C, lowercase letters are significant.\n");
   printf("main is where program execution begins.\n");
   printf("Opening and closing braces enclose program statements in a routine.\n");
   printf("All program statements must be terminated by a semicolon.\n");

}

```

2.)
There's no newline character separating the lines so the output would like this:
Testing…….1…2..3
(newline character here)

3.)

```c
#include <stdio.h>

int main(void)
{

   int num1, num2, result;

   num1 = 15, num2 = 87; //assigning 15 and 87 to variables rids the program from magic numbers

   result = num2 - num1;

   printf("Subtracting the value %d from %d results to %d", num1, num2, result); //"subtract from" means the first value is the subtrahend

   return 0;

}

```

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4.)
C is case-sensitive so ‘Void’ in the main function’s parameter list should be ‘void’ and ‘INT’ when declaring the variable should be ‘int'. There should be an open curly bracket ‘{‘ after declaring the main function.The comments in line 4 and line 6 that start with ‘/*’ should end with ‘*/’. We should also remove the double forward slash ‘//’ at the end of line 6. Line 5 should have a semicolon ‘;’ at the end. We should also use a comma, ‘,’ to separate the two parameters in the ‘printf’ function.

(i didn’t add newlines for readability because I wanted it to look like the code in number 4 and I also referred to specific lines when I was narrating the changes I would make)

```c
#include <stdio.h>
int main(void){
    int sum;
    /* COMPUTE RESULT */
    sum = 25 + 37 - 19;
    /* DISPLAY RESULTS */
    printf("The answer is %i\n", sum);
    return 0;
}
```

5.)
The program wouldn’t run because there’s no semicolon after assigning 100 to the variable ‘answer’. However, if there was a semicolon at the end, the program would print ‘The result is 95’.

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