Basic Syntax in C
Lecture 1 Assignments

1.

```c
/***  CELIS, KRISTINA | ASSIGNMENT 1 | lec1_c1  ***/

#include <stdio.h>

int main(void)
{
    /* the printf() function will print/display the ff statements in the terminal
       or output screen.'\n' is used to insert a new line for every printf statement. */
    printf("a. In C, lowercase letters are significant.\n");
    printf("b. main is where program execution begins.\n");
    printf("c. Opening and closing braces enclose program statements in a routine.\n");
    printf("d. All program statements must be terminated by a semicolon.\n");

    return 0;
}
```

```
a. In C, lowercase letters are significant.
b. main is where program execution begins.
c. Opening and closing braces enclose program statements in a routine.
d. All program statements must be terminated by a semicolon.
PS C:\Users\Kristina\Desktop\ACADS\CMSC 21\source codes>
```

2. The expected output is: Testing…….1…2..3

3.

```c
/***  CELIS, KRISTINA | ASSIGNMENT 1 | lec1_c2  ***/

#include <stdio.h>

int main(void)
{

    int minuend, subtrahend, difference;    // Declaring variables as integers

    minuend = 87;                           // Assigning the values to the variables declared
    subtrahend = 15;
    difference = minuend - subtrahend;      // Formula for subtracting

    // the statement below will print the output (message, integers and difference) in the terminal.
    printf("Subtracting %d from %d is equal to a difference of %d\n", subtrahend, minuend, difference);

    return 0;
}
```

```
Subtracting 15 from 87 is equal to a difference of 72
PS C:\Users\Kristina\Desktop\ACADS\CMSC 21\source codes>
```

4. Identify the syntactic errors in the following program.

```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;
}
```

Line 2: int main(Void)
- V should not be capitalized
- Lacks an open bracket { after it

Line 3: INT sum;
- INT should not be capitalized

Line 4: /* COMPUTE RESULT
- Comment was not closed. Lacks */

Line 5: sum = 25 + 37 – 19
- Statement should be terminated by a semicolon (;)

Line 6: /* DISPLAY RESULTS //
- Comment was not closed. Should be */ in the end

Line 7: printf ("The answer is %i\n" sum);
- There should be a comma (,) before the sum variable

Then type in and run the corrected program to ensure you have correctly identified all the mistakes.

```c
/***  CELIS, KRISTINA | ASSIGNMENT 1 | lec1_c4  ***/

#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;
}
```

```
The answer is 43
PS C:\Users\Kristina\Desktop\ACADS\CMSC 21\source codes>
```

5. An error will occur with the program due to the line “answer = 100.”

Solution: This should be terminated by a semicolon (;) instead of a period.