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BSCS CMSC 21-1

1.

```c
#include <stdio.h>

int main(void)
{
    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;
}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments> cd "c:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments\" ; if ($?) { gcc
assignment_lec1_c1.c -o assignment_lec1_c1 } ; if ($?) { .\assignment_lec1_c1 }
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.
```

2. The expected output would be:
   "Testing.....1...2..3"

3.

C: > Users > mjpar > Documents > UP > SEM 2 > CMSC 21-1 > Assignments > C assignment_lec1_c2.c > main(void)

```c
#include <stdio.h>

int main(void)
{
    int a, b, difference;

    a = 87;
    b = 15;
    difference = a - b;
    printf("Subtracting 15 from 87 results in %d.", difference);

    return 0;
}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments> cd "c:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments\" ; i
f ($?) { gcc assignment_lec1_c2.c -o assignment_lec1_c2 } ; if ($?) { .\assignment_lec1_c2 }
Subtracting 15 from 87 results in 72.
```

4. Syntactic errors in the program include:
   - int main (Void)
   - INT sum;
   - /* COMPUTE RESULT
   - sum = 25 + 37 – 19
   - /* DISPLAY RESULTS //
   - printf ("The answer is %i\n" sum);

The correct program would be:

C: > Users > mjpar > Documents > UP > SEM 2 > CMSC 21-1 > Assignments > C assignment_lec4_c4.c > main(void)

```c
#include <stdio.h>

int main(void)
{
    int sum;
    /* COMPUTE RESULT */
    sum = 25 + 37 - 19;
    /* DISPLAY RESULTS */
    printf ("The answer is %d\n", sum);

    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments> cd "c:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Assignments\" ; i
f ($?) { gcc assignment_lec4_c4.c -o assignment_lec4_c4 } ; if ($?) { .\assignment_lec4_c4 }
The answer is 43
```

5. The output will result in a syntactic error, given that the line “answer = 100.” should end in a semicolon (;) instead of a period.