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2021-03842

1.

```c
/* ~~~~~~~~~~~~~~~~~~~~~~~~
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~~~~~~~~~~~~~~~~~~~~~~~~ */

#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.");

    return 0;
}
```

```
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code> ./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.
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code>
```

2.

Output:

Testing.....1...2..3

3.

assignment_lec1_c2.c > main(void)

```c
/* ~~~~~~~~~~~~~~~~~~~~~~~~
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~~~~~~~~~~~~~~~~~~~~~~~~ */

#include <stdio.h>

int main(void) {
    int a, b, c;
    a = 15;
    b = 87;
    c = b - a;

    printf("Subtracting %d from %d gets: %d", a, b, c);

    return 0;
}
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code> ./assignment_lec1_c2
Subtracting 15 from 87 gets: 72
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code>
```

4.

assignment_lec4_c4.c > main(void)

```c
/* ~~~~~~~~~~~~~~~~~~~~~~~~
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~~~~~~~~~~~~~~~~~~~~~~~~ */

#include <stdio.h>
int main(void)                          // Void must be lowercase. Correction: void
{                                       // missing opening bracket. Correction: {
    int sum;                            // INT must be lowecase. Correction: int
    // COMPUTE RESULT                   // header comments must use //, not /*. Correction: //
    sum = 25 + 37 - 19;                 // missing semi-colon at end of line. Correction: ;
    /* DISPLAY RESULTS */               // /* ends with */, not //. Correction: */
    printf ("The answer is %i\n", sum);     // variables in print must be separated by comma. Correct: ,
    return 0;
}
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code> ./assignment_lec4_c4
The answer is 43
PS C:\Users\User\Documents\Eskul\CMSC 21 - Fundamentals of Programming\C Code>
```

5.

The program cannot be built because there is a syntax error. At line 4, “answer = 100.”, there is a period when there should be a semi-colon. When this is debugged, the output is:
The result is 95