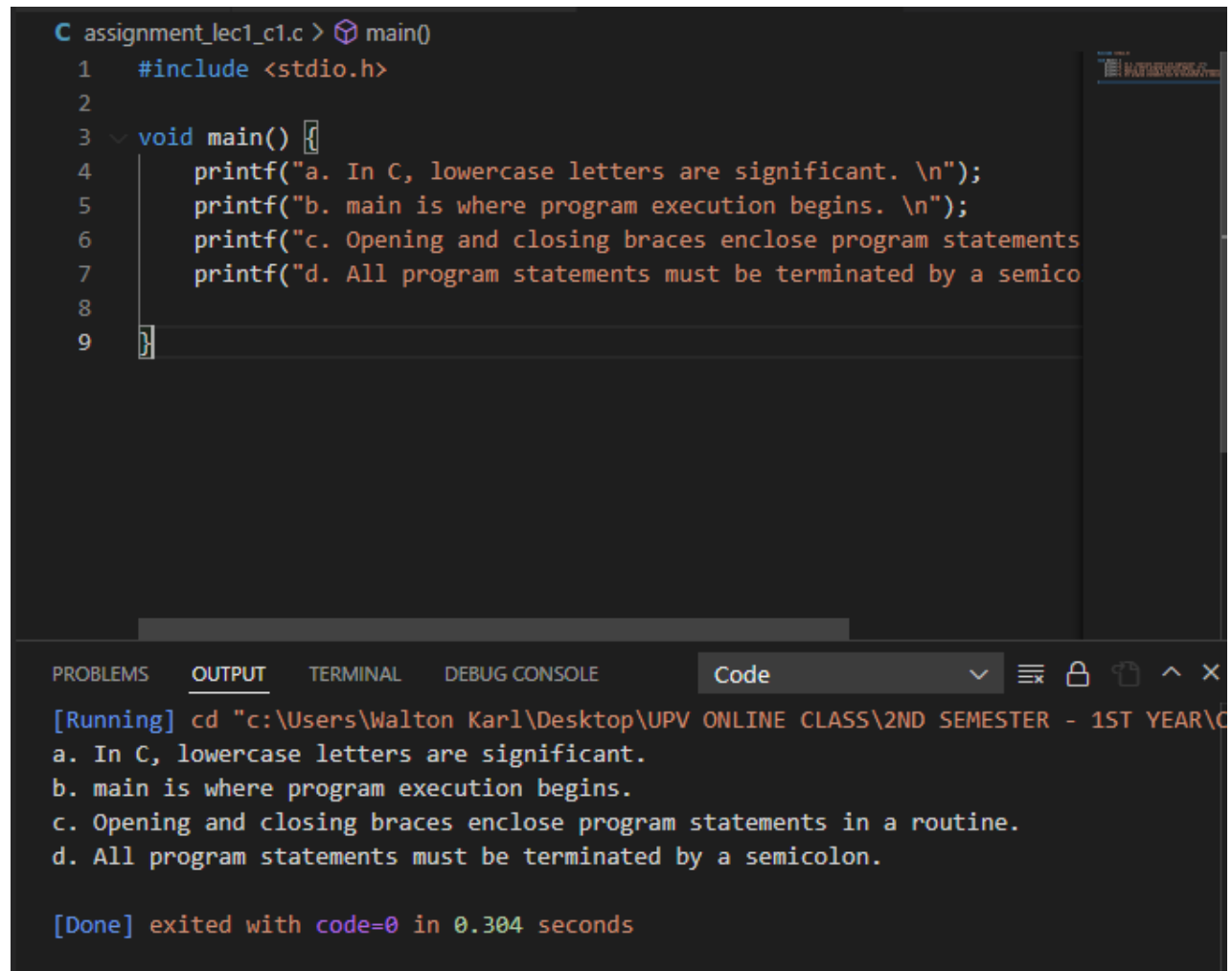


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CMSC 21-1

Basic Syntax in C
Lecture 1 Assignments

1. Write a program that prints the following text at the terminal.



The screenshot shows a code editor with a C program. The code is as follows:

```
C assignment_lec1_c1.c > main()
1  #include <stdio.h>
2
3  void main() {
4      printf("a. In C, lowercase letters are significant. \n");
5      printf("b. main is where program execution begins. \n");
6      printf("c. Opening and closing braces enclose program statements
7      printf("d. All program statements must be terminated by a semico
8
9  }
```

The output window shows the following text:

```
[Running] cd "c:\Users\Walton Karl\Desktop\UPV ONLINE CLASS\2ND SEMESTER - 1ST YEAR\C
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.

[Done] exited with code=0 in 0.304 seconds
```

2. What output would you expect from the following program?

```
#include <stdio.h>
int main (void){
    printf ("Testing...");
    printf ("....1");
    printf ("...2");
    printf ("..3");
    printf ("\n");
    return 0;
}
```

> This will have an output of: "Testing.....1...2..3"

3. Write a program that subtracts the value 15 from 87 and displays the result, together with an appropriate message, at the terminal.

```
C assignment_lec1_c2.c X
C assignment_lec1_c2.c > main()
1  #include <stdio.h>
2
3  int main()
4
5  {
6
7      int minuend = 87, subtrahend = 15;
8
9      int difference = minuend - subtrahend;
10
11     printf("The difference of subtracting 15 from 87 is %d.", difference);
12
13 }
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE Cod

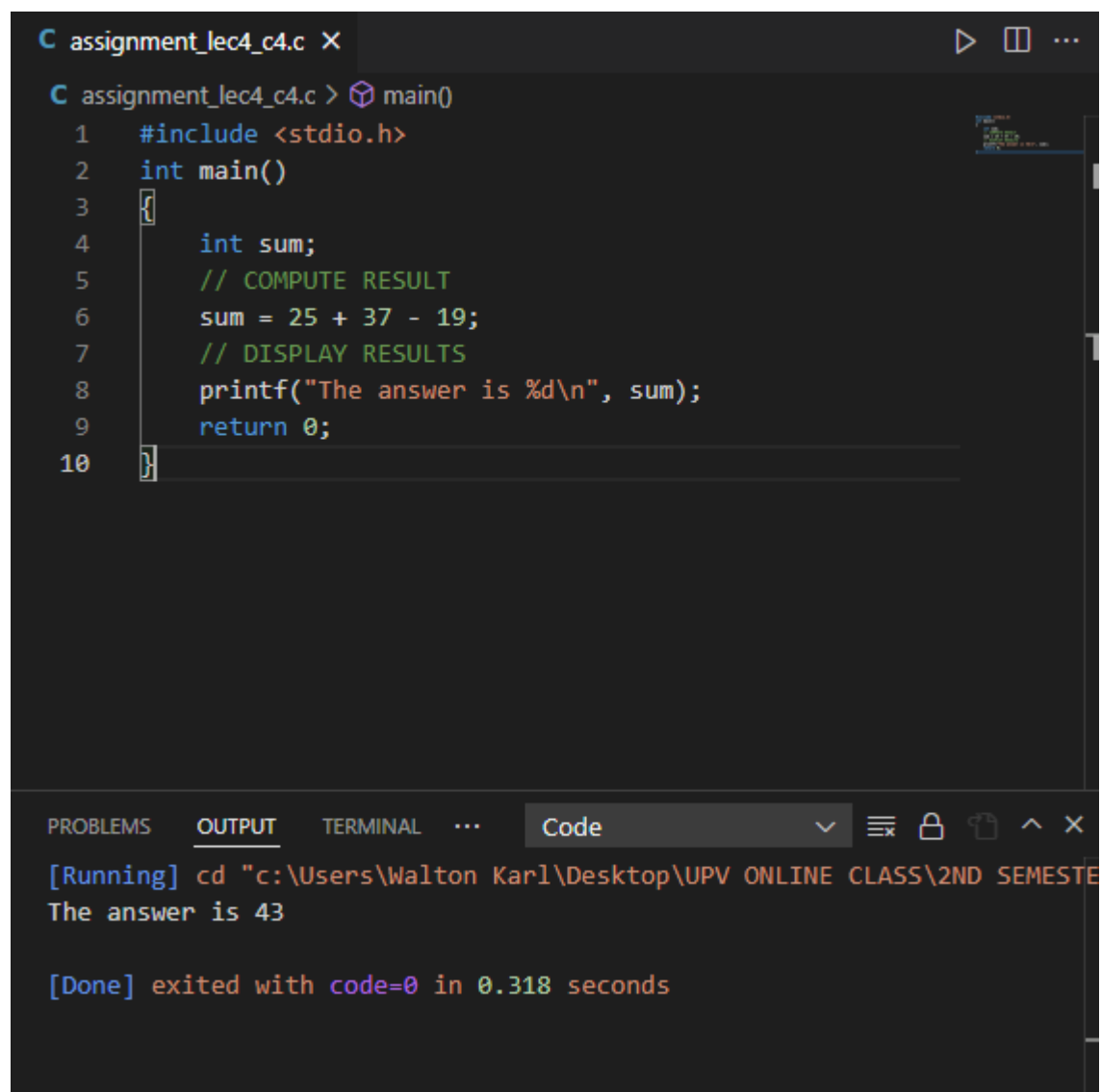
[Running] cd "c:\Users\Walton Karl\Desktop\UPV ONLINE CLASS\2ND SEMESTER - 1ST YEAR\
The difference of subtracting 15 from 87 is 72.
[Done] exited with code=0 in 0.423 seconds

4. Identify the syntactic errors in the following program. Then type in and run the corrected program to ensure you have correctly identified all the mistakes.

```
#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 syntactic errors are:

int main(Void), no "{", INT sum;, and bad // and /*...*/ comment



The screenshot shows a code editor window titled "assignment_lec4_c4.c". The code is as follows:

```
1  #include <stdio.h>
2  int main()
3  {
4      int sum;
5      // COMPUTE RESULT
6      sum = 25 + 37 - 19;
7      // DISPLAY RESULTS
8      printf("The answer is %d\n", sum);
9      return 0;
10 }
```

The editor's output pane shows the following text:

```
[Running] cd "c:\Users\Walton Karl\Desktop\UPV ONLINE CLASS\2ND SEMESTER"
The answer is 43

[Done] exited with code=0 in 0.318 seconds
```

5. What output might you expect from the following program?

```
#include <stdio.h>
int main (void){
    int answer, result;
    answer = 100.
    result = answer - 10;
    printf ("The result is %i\n", result + 5);
    return 0;
}
```

> The file will find an error with a “.” At the end of line 4, which is: “answer = 100.” Instead of a semicolon “;”