

Charles Aguilar

CMSC 21-1

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     char* str =
6         "a. In C, lowercase letters are significant.\n"
7         "b. main is where program execution begins.\n"
8         "c. Opening and closing braces enclose program statements in a routine.\n"
9         "d. All program statements must be terminated by a semicolon.\n";
10
11     printf(str);
12
13     return 0;
14 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments> cd "c:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments\" ; if (\$?) { gcc assignment_le
c1_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.
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments> █

1.

2. Expected output: Testing.....1...2..3

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     int num_1, num_2, difference;
6
7     num_1 = 87;
8     num_2 = 15;
9
10    difference = num_1 - num_2;
11
12    printf("1st number: %d\n2nd number: %d\n%d - %d = %d",
13        num_1, num_2, num_1, num_2, difference);
14
15    return 0;
16 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments> cd "c:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments\" ; if (\$?) { gcc assignment_le
c1_c2.c -o assignment_lec1_c2 } ; if (\$?) { .\assignment_lec1_c2 }
1st number: 87
2nd number: 15
87 - 15 = 72
PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments> █


3.

4. Errors:

- Int main(Void) is missing '{' at the end and 'V' in 'Void' should not be capitalized.
- 'INT' in INT sum; should be in lowercase.
- /* COMPUTE RESULT should have '*' at the end.
- sum = 25 + 37 - 19 should end with ';'.
- e. /* DISPLAY RESULTS // should end with '*' instead of '/'
- printf ("The answer is %i\n" sum); is missing ',' after the format.

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Correct program:



```
1  #include <stdio.h>
2
3  int main(void)
4  {
5      int sum;
6
7      /* COMPUTE RESULT */
8      sum = 25 + 37 - 19;
9
10     /* DISPLAY RESULTS */
11     printf("The answer is %i\n", sum);
12
13     return 0;
14 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21> cd "c:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments" ; if (\$?) { gcc assignment_lec1_c4.c -o assignment_lec1_c4 } ; if (\$?) { .\assignment_lec1_c4 }

The answer is 43

PS C:\Human-Files\College\UPV_Y1\SEM_2\CMSC21\Lecture1\Assignments>

5. expected output would be an error because line 4 (answer = 100.) ended in '
Instead of a semicolon ';