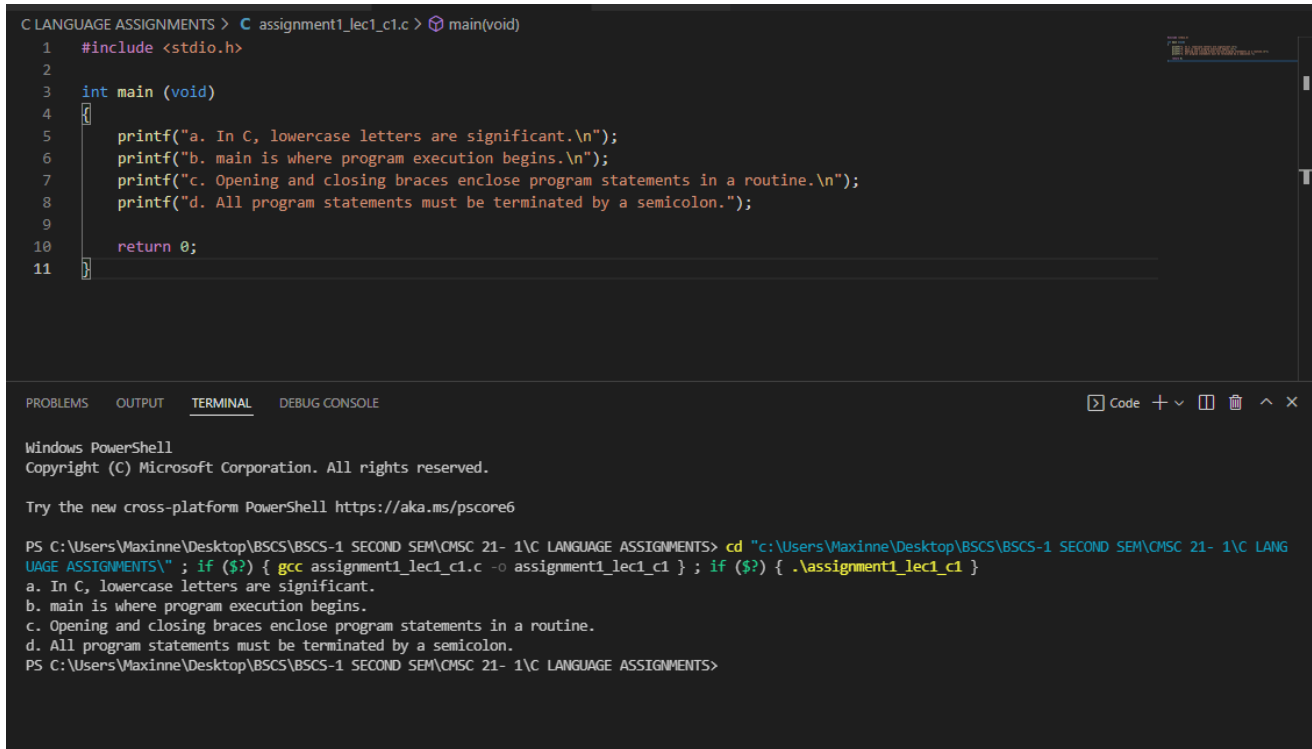


Basic Syntax in C

Lecture 1 Assignments

1.



The screenshot shows a C program in a code editor and its execution output in a terminal window. The code is as follows:

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

The terminal output shows the execution of the program, displaying the four lines of text defined in the printf statements, each on a new line:

```
PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS> cd "c:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS\" ; if ($?) { gcc assignment1_lec1_c1.c -o assignment1_lec1_c1 } ; if ($?) { .\assignment1_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\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS>
```

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

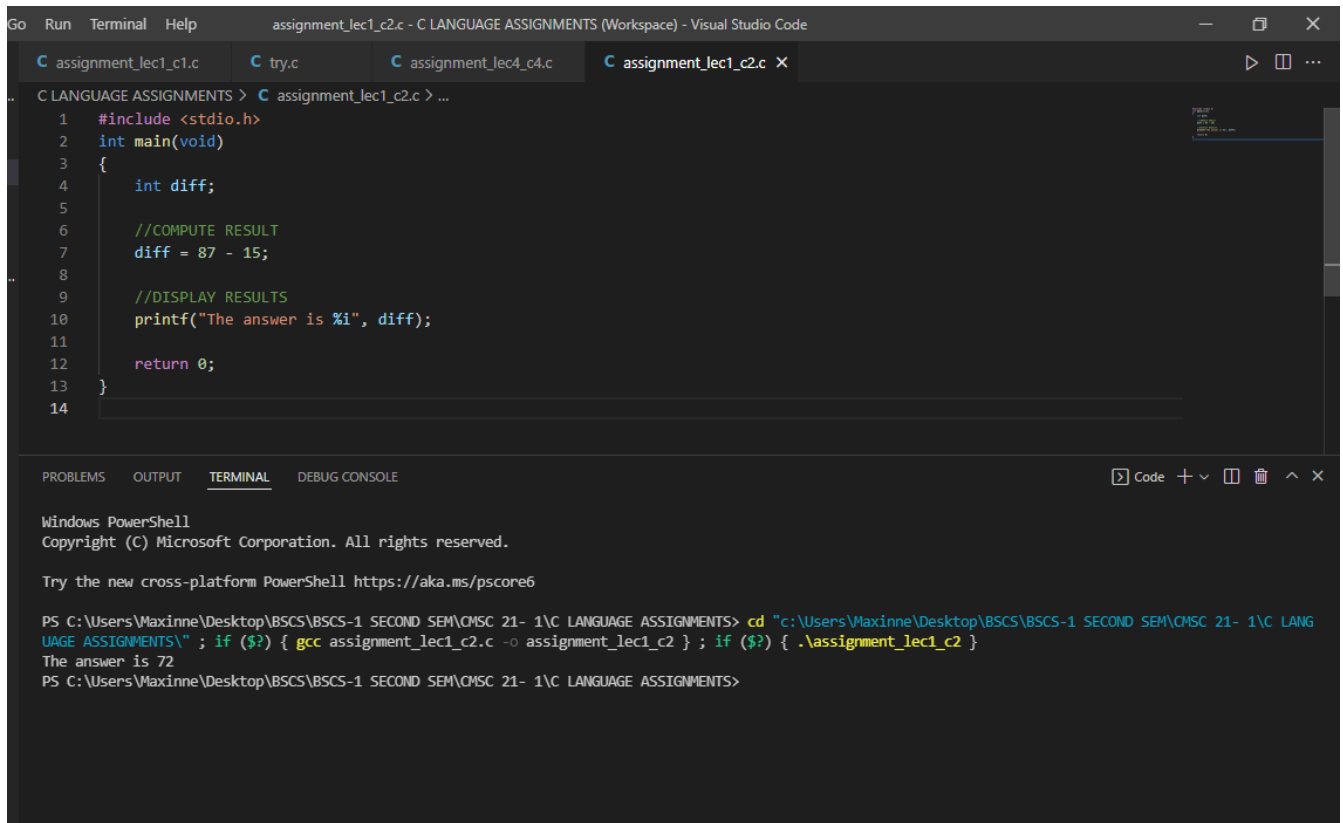
```
#include <stdio.h>

int main (void){
    printf ("Testing...");
    printf (".....1");
    printf ("...2");
    printf ("..3");
    printf ("\n");
    return 0;
```

The output of this program would be:

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

3.



```
Go Run Terminal Help assignment_lec1_c2.c - C LANGUAGE ASSIGNMENTS (Workspace) - Visual Studio Code
C assignment_lec1_c1.c C try.c C assignment_lec4_c4.c C assignment_lec1_c2.c X
C LANGUAGE ASSIGNMENTS > C assignment_lec1_c2.c > ...
1 #include <stdio.h>
2 int main(void)
3 {
4     int diff;
5
6     //COMPUTE RESULT
7     diff = 87 - 15;
8
9     //DISPLAY RESULTS
10    printf("The answer is %i", diff);
11
12    return 0;
13 }
14
```

PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE

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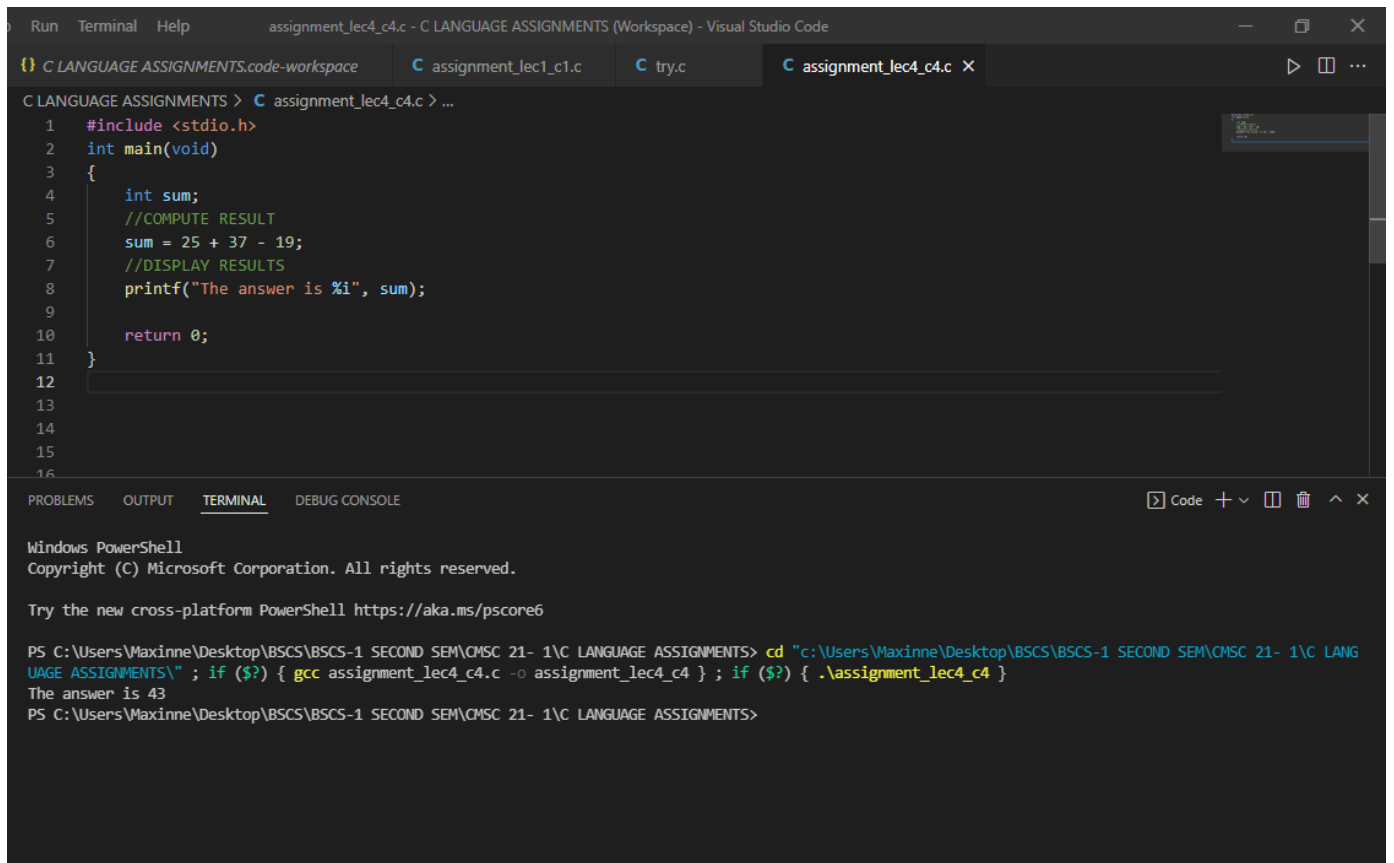
Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS> cd "c:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS\" ; if (\$?) { gcc assignment_lec1_c2.c -o assignment_lec1_c2 } ; if (\$?) { .\assignment_lec1_c2 }

The answer is 72

PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS>

4.



```
Go Run Terminal Help assignment_lec4_c4.c - C LANGUAGE ASSIGNMENTS (Workspace) - Visual Studio Code
C LANGUAGE ASSIGNMENTS.code-workspace C assignment_lec1_c1.c C try.c C assignment_lec4_c4.c X
C LANGUAGE ASSIGNMENTS > C assignment_lec4_c4.c > ...
1 #include <stdio.h>
2 int main(void)
3 {
4     int sum;
5     //COMPUTE RESULT
6     sum = 25 + 37 - 19;
7     //DISPLAY RESULTS
8     printf("The answer is %i", sum);
9
10    return 0;
11 }
12
13
14
15
16
```

PROBLEMS OUTPUT **TERMINAL** DEBUG CONSOLE

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

PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS> cd "c:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS\" ; if (\$?) { gcc assignment_lec4_c4.c -o assignment_lec4_c4 } ; if (\$?) { .\assignment_lec4_c4 }

The answer is 43

PS C:\Users\Maxinne\Desktop\BSCS\BSCS-1 SECOND SEM\CMSC 21- 1\C LANGUAGE ASSIGNMENTS>

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 output of this program be:

The result is 95