

## Basic Syntax in C

### Lecture 1 Assignments

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

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

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

Testing .....1...2...3  
(newline)

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

```
1  #include <stdio.h>
2  int main (void){
3      int minuend, subtrahend, diff;
4      minuend = 87; subtrahend = 15;
5      diff = minuend - subtrahend;
6
7      printf("The difference between %d and %d is: %d", minuend, subtrahend, diff);
8  }
9
```

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.

1. Line 4, /\*capital 'v' in void\*/
2. Line 4, /\*no opening curly braces\*/
3. Line 5, /\*capitalized var type 'int'\*/
4. Line 6, /\*unclosed comment\*/
5. Line 7, /\*no closing semicolon\*/
6. Line 8, /\*extra slash, no asterisk in comment\*/
7. Line 9, /\*extra space after printf func, no comma after string\*/

```
1  #include <stdio.h>
2
3  /*capital 'v' in void*/
4  int main(Void) { /*no opening curly braces*/
5      int sum;      /*capitalized 'int'*/
6      /* COMPUTE RESULT */ /*unclosed comment*/
7      sum = 25 + 37 - 19; /*no closing semicolon*/
8      /* DISPLAY RESULTS */ /*extra slash, no asterisk in comment*/
9      printf("The answer is %i\n", sum); /*extra space after printf func, no comma after string*/
10     return 0;
11 }
12
```

5. There's a dot in line 4, but when corrected, the expected output is:

The result is 95

Since the final result have been added by 5.