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CMSC 21 – Lec 3

Basic Syntax in C
Lecture 1 Assignments

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

CMSC 21 > CMSC 21 > Lecture1 > C assignment_lec1_c1.c > ...

```c
#include <stdio.h>
    int main (void) {

        printf ("In C, lowercase letters are significant.\n");
        printf ("main is where program execution begins.\n");
        printf ("Opening and closing braces enclose program statements in a routine.\n");
        printf ("All program statements must be terminated by a semicolon.\n");

        return 0;
    }
```

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

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

The output would be:

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

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

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```c
#include <stdio.h>
    int main (void){

        int x,y,z;
        x=15;
        y=87;
        z=y-x;

        printf("%d subtracted from %d is equal to %d.", x, y, z);

    return 0;
}
```

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.

```c
#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;
}
```

CMSC 21 > CMSC 21 > Lecture1 > C assignment_lec4_c4.c > main(Void)

```c
#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;
}
```

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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 result would be an error since line 4 ended with period (.) instead of a semi-colon.

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