BASIC SYNTAX IN C
LECTURE 1 ASSIGNMENTS

1.
```c
// Prepocessor Directive
#include <stdio.h>
#include <stdlib.h>

// where the program begins
int main(void)
{
// printf to basically print the strings and added \n for the new line
    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. The output of the code in question number 2 is **Testing.....1...2..3**

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

Process returned 0 (0x0)   execution time : 0.587 s
Press any key to continue.
```

3.
```c
// Prepocessor Derivative
#include <stdio.h>
#include <stdlib.h>

// where the program begins
int main(void)
{
// Declaration of variables; an important step before giving the variables its value
// int is the data type minuend, subtrahend, and difference are the variables
    int minuend, subtrahend, difference;

    minuend = 87; // it is the greater number from which the smaller number is subtracted
    subtrahend = 15; // the smaller number (the one subtracted from the minnuend)
// formula of finding the difference
    difference = minuend - subtrahend;

// instructing the computer to do the action of printing
// %d is the format string for the data type int
// printing the string, followed by the variable
    printf("The difference when you subtract %d from %d is %d", subtrahend, minuend, difference);
    printf(".\n");

    return 0;
}
```

4.

```c
#include <stdio.h>


int main(Void)
//opening bracket should not disappear
{
    // INT should be in all lowecase
    int sum;
    // incomplete set for commenting, should end in */
    /* COMPUTE RESULT */
    // semicolon is very important!
    sum = 25 + 37 - 19;
    // wrong way of commenting, should be */ not //
    /* DISPLAY RESULTS */
    // should have comma before the variable
    printf ("The answer is %i\n", sum);
    return 0;
}
```

5. For question number 5, there is an error in the code:

||=== Build: Debug in assign1 (compiler: GNU GCC Compiler) ===|
college\C codes\assign1\main.c||In function 'main':|
college\C codes\assign1\main.c|7|error: expected ';' before 'result'|
college\C codes\assign1\main.c|5|warning: variable 'answer' set but not used [-Wunused-but-set-variable]|
||=== Build failed: 1 error(s), 1 warning(s) (0 minute(s), 0 second(s)) ===|

>> it should be a semicolon not a period after the number 100.