

BASIC SYNTAX IN C

Lecture 1 Assignment

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

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

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

- The output of the given codes will display the print statement and space on the last line. Testing.....1...2..3

Empty space line

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

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
3  int main(void)
4  {
5      int a, b, c;
6      a = 87;
7      b = 15;
8      c = a - b;
9      printf("The difference between %d and %d is %d.\n", a, b, c);
10     return 0;
11 }
```

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.

Identified errors are the following:

Rewriting the Code

```
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\n", sum);
9      return 0;
10 }
11
```

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*/

5.) Variable is subtracted by 10 and added by 5 by definition the given code is expected to have an output of 95 but there is an error in line 4 where dot must be semi colon. If corrected it will be 95