COS 135 Individual Assignment Week 2

Due: Friday 02/08/19 End of the day

This assignment has 2 sections (part #1 and part #2) in 4 pages. Please submit a .zip file with answers for MCQs (see MCQ template attached) and source code/s.

Part #1 (60pts) MCQ: Select the most appropriate answer.

- 1. What is the purpose of comments in a computer program?
- a. They help the compiler understand the code.
- b. They help the CPU understand the code.
- c. They help a human reading the comment understand the code.
- d. none of the above
- 2. Which of the following is a legal identifier?
- a. 3_points
- b. fieldGoal%
- c. three points
- d. three_points
- 3. Which of the following is not a valid C statement?
- a. printf("Hello");
- b. printf('H');
- c. printf("\"Hello\"");
- d. printf('Hello');
- 4. Which of the following is not a keyword in C?
- a. void
- b. while
- c. else
- d. repeat
- 5. Every C program must have a main() function.
- a. True
- b. False

b. c.	int number; float rate; int variable_count; int \$main;			
7. Library function putchar() belongs to which header file?				
b. c.	stdio.h conio.h stdlib.h stdlibio.h			
8. Which of the following is not a command in Linux shell / terminal?				
c.	ls pwd mkfolder man			
9. Functions can be declared (or implemented) inside the main() function.				
	True False			
10.	C programs can be compiled and executed in			
	Windows only Mac OS X only Linux only Any of the above (Windows, Mac OS X, or Linux)			
11. A local variable can be accessed from any function in a C program.				
a. b.	True False			

6. Which of the following is not a valid C variable name?

12. Global variables are defined inside the main() function.			
a. True b. False			
13. A variable in a C program has a			
a. nameb. addressc. data typed. all of the above			
14. Following program outputs:			
const double PI = 3.14; PI = 2.9; printf("PI: %f", PI);			
a. PI: 2.9 b. PI: 3.14 c. PI: 6.04 d. An error in the code			
15. Following printf() statement outputs:			
printf("Hello\rHi\bA\n");			
a. HelloHiA b. HelloHA c. HAllo d. HellHA			

Part #2 (40pts): write C programs for following tasks and submit your source code/s

(a) Write a C program to output following table into the console / terminal. Refer to sample codes uploaded in Blackboard for more formatting options.

Name	Age	Country
Peter	23	USA
Manuel	43	Germany
Ken	35	China
Moz	54	Ghana

(b) Use a suitable format specifier to complete the following code.

```
#include <stdio.h>
int main()
{
    char chr = 67;
    printf("Character having ASCII value 67 is ___.\n", chr);
    return 0;
}
```

(c) Complete the printf() function with suitable format specifiers to output the data in variables.

```
#include<stdio.h>
```

```
int main()
{
    int i_number = 12;
    float f_number = 3.125;
    double d_number = 7.5345345;
    char character = 'T';
    char text[] = "COS 135";

    printf("________);
}
```