CSCI1121 **Spring 2018**

Problems to solve in preparation for the upcoming test nest week.

1. Write C code to find natural numbers from 1 to 15 in a reverse order.
2. Write C code to find sum of the natural numbers from 1 to 10.
3. Create C Program to print numeric pyramid.
4. Write C code to find character diamond.
5. Create C Program to accept a character in the lowercase and print it in capital case.
6. C Program to accept a character in any case and print in another case.
7. Create C Program to find the natural numbers from 1 to 25.
8. Write C Program to accept a string and print it out.
9. Create C Program to accept a string in lower case and print it by upper case.
10. Create a C Program to accept a word and to print each word in a new line.
11. C Program to accept a string and count the number of capital letters, number of small letters and number of special characters.
12. C Program to accept any single digit number and print it in words .
13. Write C code to find prime numbers between 1 to 111.
14. Create C Program to accept two numbers and print sum of two numbers.
15. Write C Program to accept a number and find factorial of given number.
16. Write C Program to accept a tree-digit number and to print the sum of its digits.
17. Write C Program to accept 12 numbers and print first six numbers in original order and print last six numbers in reverse order.

In problems 18-20 find the errors, explain them in words, correct them so that you can compile and run the C program.

18.
```
#include <stdio.h>
main()  {
int n, int n2, int m3;
n = 5;
n2 = n * n;
n3 = n2 * n2
printf("n = %f, n is squared = %d, n is cubed = %d/n", n, n2, m3); }
```

19.
```
#include <stdio.h>
int main()
{
int a = 3, b = 5, c;
a = (a > 3) + (b <= 5);
b = (a = 3) + ((b-2) >= 3);
c = (b = 1);
printf("%d %f %d\n", a, b, c);
return 0;
}
```

20.
```
#include <stdio.h>
int main()
{
      int a = 10, b = -10;
      if(a > 0 && b < -8)
            printf(" One ");
      else
            printf(" Two ");
      if(a > 10 || b = -10)
            printf(" One ");
      else
            printf(" Two "); }
```