**Problem 18.1**

Assume integer variables x, y, and pointers to integer name ptr1 and ptr2. Do the following tasks for output/error.

int x = 100, y = 200, z;

char ch = ‘a’;

1. Declare two pointers named ptr1 and ptr2 on
   1. Separate lines
   2. Same line
2. Try following
   1. Point ptr1 to x and Point ptr2 to y on separate lines
   2. Point ptr1 to x and ptr2 to y on same line
3. Print address of x
4. Print address of y
5. Print ptr1
6. Print ptr2
7. Print the dereferred ptr1
8. Print the dereferred ptr2
9. Print following \*(&x)
10. Print following &(\*x)
11. Print the address of ptr1
12. Print the address of ptr2
13. Point ptr2 to x
14. Print ptr2
15. Print the dereferred value of ptr2
16. Print the address of ptr2
17. Multiply dereferred ptr1 and dereferred ptr2 and save result into z
18. Try following statement \*ptr1++ +\*ptr2 for output/error
19. Try following statement \*ptr1+ ++\*ptr2 for output/error
20. Try following statement \*ptr1+++\*ptr2 for output/error

**Problem 18.2**

Practice of creating and using custom header files.