

Lab Exercise 5

1. Given these variables...

```
string word = "Bleargh";
```

```
string *wp;
```

1) assign the pointer wp to point at word

2) using the pointer wp, change the value of word to "AckAckAck"

3) using the pointer wp, print the value of word

2. In the main function, declare two integer variables **x** and **y** to store values 7 and 15 respectively.

Now, define a swap function that takes two integer pointers, and swaps the values being pointed by these pointers.

In the main function, call the swap function to swap values of **x** and **y**. Therefore, after swapping, value of **x** will be 15 and value of **y** will be 7.

3. Assume that the address of variable **a** is **0x7ffdbec584** and the address of variable **b** is **0x7ffdbec578**. Copy the following code in your compiler and provide the output for each of the cout statements as a comment in front of each statement. Remember to use the addresses provided above, and not the ones that might be allocated if you compile. Some statements might have a syntax error, you can comment that statement and provide an explanation of why that is a syntax error as a comment in front of that statement.

```
int main()
{
    int a = 67;
    int* b = &a;
    cout << a << endl;
    cout << &a << endl;
    cout << b << endl;
    cout << &b << endl;
    cout << *b << endl;
    cout << *&a << endl;
    cout << *&b << endl;
    cout << &*a << endl;
    cout << &*b << endl;
    *b = 36;
    cout << a << endl;
    cout << &a << endl;
    cout << b << endl;
    cout << &b << endl;
    cout << *b << endl;
    cout << *&a << endl;
    cout << *&b << endl;
    cout << &*a << endl;
    cout << &*b << endl;
}
```