COIS 2040 Lab 5

Part 1 – Pointers

Step 3

```
string pString = "The cat jumps";
char *p = &pString[0];
cout << p // Prints the string from the address pointed by 'p' until '\0'
cout << *p // Prints the character at the memory address pointed by 'p'</pre>
```

Step 4

```
for (int i = 0; i < pString.length(); i++)
{
    if (pString[i] == ' ')
    {
        pString[i] = '0';
    }
    cout << pString[i];
}
// Output: The0cat0jumps</pre>
```

Part 2 – Dynamic Arrays

Step 2

```
myList.pop_back();
for (auto& val : myList)
{
    cout << val;
}</pre>
```

Step 6

Step 9

```
#include <iostream
#include <string>
#include <vector>
using namespace std;
int main()
  while (flavor != "done");
```

```
(Type done to finish)
Enter ice cream flavors:
1:
1:
1:
1: done
No ice cream in the freezer
(Type done to finish)
Enter ice cream flavors:
1: one
2: two
3: three
4: four
5: done
The fourth flavor in the freezer is: four
(Type done to finish)
Enter ice cream flavors:
There are 8 flavors of ice cream in the freezer.
```