<u>CS121 SI – Week 1 – Pt. II</u>

C	O	C-	4		\
Concept	&	Sī	ntax	C	uestions:

1. Give an example of declaring a variable and another of initializing a variable. Is it okay to use a variable that's initialized but not declared? Declared but not initialized?

2. What is the output of the following code and why? Assume that there is an integer called *a* that is equal to *4*.

```
if(3 == a)
    if(4 >= a)
    {
        cout << "Your number is either 3 or 4";
    }
else
{
        cout << "Your number is not 3";
}</pre>
```

3. What is an <u>escape sequence</u>? Give three examples of them and what each of your examples do.

4. What is the output of the following code (in Visual Studio) and why is that?

```
cout << sizeof(float) << endl;
cout << sizeof(short) << endl;
cout << sizeof(int) << endl;
cout << sizeof(double) << endl;</pre>
```

5.	Give an example of using camel case and using underscores for variable identifiers. Is one better than the other? Explain.
6.	If we assign an integer <i>num</i> to <i>4.85</i> , what is the value of <i>num?</i> Explain. Also, if we wanted to print the (true) result of <i>3 divided by 4</i> with <i>cout</i> , how could we do so?
7.	What is the modulus operator, and in what are two situations where using the modulus operator is considerably useful?