## Problem Set 04 - Fields & Objects

Complete each task below. Remember to include all header files in the accompanying cpp file and test the functions.

## Tasks:

1.	Create a header file named "Person.h" and define the class $Person$ within the namespace $PS4$ . The class must contain
	$\Box$ a public string field named firstName
	$\Box$ a public string field named $lastName$
	$\Box$ a public short field named $age$
	Afterward, within the accompanying cpp file, define a string function named FormatInfo() that takes a <code>Person</code> reference parameter. It returns a string in the format
	x,y $(z)$
	where $x$ , $y$ and $z$ are the values of the $lastName$ , $firstName$ and $age$ fields of the parameter respectively.
2.	Create a header file named "Window.h" and define the class $Window$ within the namespace $PS4$ . The class must contain
	$\Box$ a public int field named $height$
	$\Box$ a public int field named $base$
	Afterward, within the accompanying cpp file, define a string function named FormatInfo() that takes a $Window$ pointer parameter. It returns a string of a filled rectangle of asterisks (*) that has a width and length equal to the values of the $height$ and $base$ fields of the parameter respectively.
3.	Create a header file named "Pin.h" and define the class $Pin$ within the namespace $PS4$ . The class must contain
	$\hfill\Box$ a public static short array field named $code$ that has a size of 4 and is initialized to $\{\tt 0,\tt 0,\tt 0,\tt 0\}$
	Afterward, within the accompanying cpp file, define a string function named FormatInfo() that takes a <i>Pin</i> reference parameter. It returns a string of the values of the elements of the <i>code</i> field of the

parameter in order with each value enclosed in square braces.