**Erika Martinez**

**Intro to Programming – C++**

**Homework Assignment – Lesson 12**

**5-7-17**

arrayProject Problem

Input: basePrice, optionCode

Processing: pkgCodeArray, pkgCostArray, pkgNameArray, pkgCost, subtotal, tax\_fee, sub

Output: finalPrice, pkgName

Algorithm:

1. enter the basePrice and optionCode

2. repeat while (the subscript is less than or equal to 4 and the optionCode has not been found in the pkgCodeArray)

Add 1 to the subscript

end repeat

3. if (the subscript is less than or equal to 4)

use the subscript to identify element pkgName in pkgNameArray

use the subscript to identify element pkgCost in pkgCostArray

calculate subtotal by adding basePrice to pkgCost

calculate tax\_fee by multiplying .15 to subtotal

calculate finalPrice by adding tax\_fee to subtotal

display pkgName and finalPrice

else

display “Invalid option code!”

end if

End