

IST 256
Lab Week 12, Day 2 – November 18, 2009

1. Review of Record Structures and Arrays

Suppose that we have a record structure that has a field called “personname” of type String and a field called “age” of type Integer, and a one-dimensional array of 12 elements that are records. The record structure and the array are declared as follows, along with the number of defined elements in the array:

```
Private Structure personrecord
    Dim personname as String
    Dim age as Integer
End Structure
```

```
Dim persons ( 0 to 11 ) as personrecord
Dim numpersons as Integer
```

Assume that all 12 elements of the array have already been defined by reading them from a file. For example, we could have executed this code:

```
Dim n as Integer = 0
While Not EOF(3)    ' where 3 is the number of a file previously opened for input
    Input(3, persons(n).personname)
    Input(3, persons(n).age)
    n = n + 1
End While
numpersons = n
```

- a. Write the first line of an If statement that tests if the first name in the file is “Alan” .

- b. Write the code that would compute the average of all the values in the age field in the array.

Hand in this lab sheet with the program from Monday when you are finished.