BITS F301 – Principles of Programming Languages

Assignment 3

Function Codes in Scala

Functions Shown

Function to find kth element in a list -

def findKth[A](k:Int, l:List[A]):A = k match { case $0 \Rightarrow 1$.head case k if $k > 0 \Rightarrow 1$.head case k if

Function to find average of numbers in a list -

def average[T](ts: Iterable[T])(implicit num: Numeric[T]) = { num.toDouble(ts.sum) / ts.size }

Function to reverse elements of list -

def reverse[A](ls: List[A]) = ls.reverse

Function to rotate elements of list -

rotate(3, List('a, 'b, 'c, 'd, 'e, 'f, 'g, 'h, 'i, 'j, 'k))