School of Computing and Information Systems The University of Melbourne COMP90049

Knowledge Technologies (Semester 1, 2017) Workshop exercises: Week 3

1.	Following on from last week, write a regular	expression which will match a string according to
	whether it contains a price (like \$20 or \$0.99.	, but not 11.30 or 0\$1an).

&	
Suppose that we have observed the token lended, and we have a dictionary as follows:	
addendum	
blenders	
commodity	

deaden
end
leader
leant
lent
lemonade
pleading

- 2. Which, if any, of the above dictionary entries be returned using a Neighbourhood Search with a neighbourhood of 1? 2? 3?
- 3. With respect to the input string lended and the dictionary entry deaden, calculate the following:
 - (a) the Global Edit Distance, using the parameter [m, i, d, r] = [+1, -1, -1, -1]
 - (b) the Local Edit Distance, using the parameter [m, i, d, r] = [+1, -1, -1, -1]
 - (c) the N-Gram Distance, using n=2
- 4. Find the best approximate match (or matches, if there are ties) in the dictionary for the string lended, based on the following methods; consider different parameters where necessary:
 - (a) the Global Edit Distance
 - (b) the Local Edit Distance
 - (c) the N-Gram Distance
 - (d) Soundex