Exercise	8		- Dan
Task 1	a) first, we draw the corre	spondence graph of e	ach attribute and target:
	templance self non-		ract Duration I high
no	no no no	yes	no no no
	Sencond, we compute the info Professional Status: $\frac{2}{9}$ entrop		
	Contract Duration: $\frac{2}{9} \cdot 0 +$	$\frac{4}{9} \cdot 0 + \frac{7}{2} \cdot (0.5283)$	+0.39) = 0.306/645
	Information gain = entropy([]	6,6]) - 0-7505 = 0.	
	Therefore, we choose the varian		as the root:
	Since we have only "yes" for Duration", we complete to spli		
	information gain for "high": Entopy (Contract Duration = hi		
	Entropy (Contract Duration = hig	h Professional Status) =	
•	low	Imedium high no Professional S civil servant/ Invon-emp	totus self-employed
	The order of the attribute of gain. We pick the attribute wit	the resulting tree is	decided by the information in for each split.
	The leaf nodes is yes/no.		
	b) We classfy Number 11 & 12 No. 11 with "low" of "Cont	tract Duration, it is	lassipal to age
	No. 12 with "medium" of	Contract Duration, it	rmination.
	c) Customer with low contract tend to not terminate for a		
1	tend to not terminate. For c		

