## \$1.4 Predicates and Quantifiers.

Predicate: 
$$P(D)$$
  $p(M) = Today$  is Monday.  
 $P(T) = " Tuesday.$ 

$$f(x)$$
:  $X > 3$ 

predicate variable

Truth value of 
$$P(4) = T$$
  $P(3) = F$   $P(2) = F$ 

$$P(2) = F$$

$$y:=4$$
 $y:=5$ 
 $y:=5$ 

## 2. Quantifiers.

Ex. All students are cs major (

(1) Universal quantities: "Y" "For all, "For every" "For each,"

X \in Students

belongs to define domain

Ex. \forall \times \forall \times