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(deftemplate bunga
  (slot id)
  (slot petal-length)
  (slot petal-width))

(deftemplate jenis-bunga
  (slot id)
  (slot jenis))

(defrule setosa
  (bunga (id ?id)
    (petal-width ?pw&:(<= ?pw 0.6)))

=>
  (printout t "Jenis bunga " ?id " adalah setosa" crlf)
  (assert(jenis-bunga (id ?id) (jenis setosa))))

(defrule virginica
  (bunga (id ?id)
    (petal-width ?pw&:(> ?pw 1.7)))

=>
  (printout t "Jenis bunga " ?id " adalah virginica")
  (assert(jenis-bunga (id ?id) (jenis virginica))))

(defrule versicolor
  (bunga (id ?id)
    (petal-width ?pw&:(> ?pw 0.6) & ?pw&:(< ?pw 1.7))
    (petal-length ?pl&:(<= ?pl 4.9)))

=>
  (printout t "Jenis bunga " ?id " adalah versicolor")
  (assert(jenis-bunga (id ?id) (jenis versicolor))))

(defrule versicolor2
  (bunga (id ?id)
    (petal-width ?pw&:(> ?pw 0.6) & ?pw&:(> ?pw 1.5))
    (petal-length ?pl&:(> ?pl 4.9)))

=>
  (printout t "Jenis bunga " ?id " adalah versicolor")
  (assert(jenis-bunga (id ?id) (jenis versicolor))))

(defrule virginica2
  (bunga (id ?id)
    (petal-width ?pw&:(> ?pw 0.6)&?pw&:(<= ?pw 1.5))
    (petal-length ?pl&:(<= ?pl 4.9)))

=>
  (printout t "Jenis bunga " ?id " adalah virginica")
  (assert(jenis-bunga (id ?id) (jenis virginica))))

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