

$\text{sdr}(X,X) :- X < 10, !.$

$\text{sdr}(X,Y) :- X1 \text{ is } X \bmod 10,$
 $X2 \text{ is } X//10,$
 $\text{sdr}(X2,Y2),$
 $X3 \text{ is } X1 + Y2,$
 $\text{sdr}(X3,Y).$