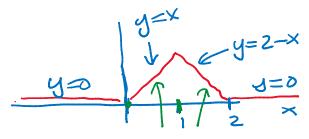
Programming in Maple

If statements.

if x<0 or x>2 then

else if x < 1 then

$$y:=2-x;$$



if x < 0 or x > z then g

Relational operators < > = < > = <> >

Boolean sperato 13 Maple

if
$$x > 0$$
 and $x <= 1$ then $y := x;$ elif $x > 0$ and $x < z$ then $y := z - x;$ else $y := 0;$

```
TUI
White loops.
                            C C++ Java
    While cond do
SI;
                            while (cond) {
                               Sij
                               52;
     od;
   for i [from m] (to n) (by s) do
 For 100PS-
    0d;
                      break;
                     exits the loop.
Calculate S= £, iz
   S := 0;
   for i from 1 to n do
    S := S + inz; S + = inz; also works od;
                   e Maple 1.5t L[i]
  L := [3, 6, 9, 4];
  S := 0;
E # L or |L|
S := 0;
for i to nops(L) do 7 (for x in L do
```

```
for i to nops(L) do 7

X == L[i];
   S += \times j
                  LE inputs (parameters) our more.
Maple procedures.
 f := proc(ai, az, ....)
    [local li, lz,...;]
[global gi, gz,...;]
       Sn: E value returned.
   end;
Example 1. f(x,y) = x^2y.
                                           Mapletypes
   f := proc(xiy) restrict inputs?
                          f := proc(x:: integer)
        x^2-y;
         end;
                                   x^2-4;
                                end;
     f(151) \rightarrow 0
     f(2,2) -> 22-2
                                       integer -3
                                       vational 2/3
                                        numeric 3.1
```