Making our own types and typedasses.
1. One way to make our own data type is to use the data!
keyword.  datutyre name
data (001) = false True
Keyword for I value constructors
creation of new
can take.
Type name and the value constructors -> capital cased.  fields.
data Shape = Circle Propt Float Float   Rectangle Ploat Float
center roding
Coondinates
fields: man parameters to the value constrctors
:t Circle are actually furtions that
:t Circle  Circle:: Float -> Float -> Ploat -> Ploat -> Circle:: Float -> Ploat -> Ploat -> Circle:: Float -> Ploat -> Clare
Shape. data type.
: t Rectangle
Rectangle: float -> float -> float -> Shape
·) Takeaway: value constructors are functions like verything else.
curything else.

Surjane: Shape - Ploat [takes a shape and returns a float ] Surface (carde -- r) = pi+r 1 2 MCCON pattern match shujace (hictorigh x1 y1 x2 y2)= against value (abs \$ x2-x1) \* (abs \$ y2-11) Coustnotors function application -> meant to save Combe treated like us keystroker, space is left any other Rudion also a ative, and & is right associative Sart \$ 3 +4+9 = sart (3+4+9) som (filter (2 10) (map (+2) [2.-10])) Sum & Filter (>10) & map (+2) [1..10]

surface & circle 10 20 10 6 Surface & hectangle 0 0 100 100 6

But print won't work, since Hasken doesn't know how to display one data type as a string. When we try to print a value to prompt, Masken first runs the show function to get the string representation of our value.

So, if we make eve shape part of the show typedass, we would be good to go.

data snape = Circle float float Float | Rectaugle float float
float float
deriving (show)