```
Chapter 4 - Defining Functions
-> Conditional expressions as in other languages.
Ex: abs:: Int > Int
    abs n = if n \ge 0 then n else -n \rightarrow Ng need of
-> can also be rested.
Ex: Signum :: Int > Int.
      signom n = if n < 0 then - I else
                    if N == 0 then 0 else 1
>Must always have an else branch in Hoskell
-> Guarded Equations
 Ex: abs n 1 n = 0 = 1 . > Similar to how
             Otherwise = -1 :it's written in math
-> Can make multiple conditions easier to read
> Coatch all condition otherwise is defined to be
true.
-> Pattern matching on it's arguments
Ex: not: Bool -> Bool
     not False = True
     not True = False
> The orderscore(_) is a wild-cord pattern that matches
any argument value
> Patterns cannot repeat variables, order of the
equations matters
-> Lambda expressions these functions can be constructed
without naming
Ex: XX -> X + X . -> Nameless functions
  . Ly Back stash on Key board.
-> Lambda calculus which is what Haskell is based on
-> Can osed to give on alternate way to understand
```

Ex	O. O. Sans	86 80 80 80 80 80 80 80 80 80 80 80 80 80	:: × & = = = = = = = = = = = = = = = = = =	= X			+ (;	IIn XY	ti ·	→ ×	Int t'	2 f h) s)	2 This can can be for	teli stons	5 24 3	.pe	۲. ۲.۶۲-۶۰۰ ۲.۶۲-۶۰۰	r. Tie	£0	
11/4		6	ر د						•	•	•			•	•	•	•	•	•	
Ex		1. +	£ .		-]	$\rightarrow$	Ber	+'n	8	Ne	3	٠	٠	•	•	•	٠	•	•	٠
A 10	(+	·).	1,	.2	\	H		•	. (	+1		). )	. = 3	3	•	•	•	•	•	٠
Allow	NS.	Ya	) . 1	1D.	Ó			•					= (		٠	•	•	٠	٠	٠
•	•	٠	٠	•	٠	•	•	٠	,01	دا	Car	,	PUt	C	xrgu	wer	its	ins	عهنو	٠
•	•	•	•	•	•	•	•	•	•	4	· 00		leav	, E	14	<b>6</b> U	16.4X	•	•	•
->+	self	S	·w	ith		itivu	<i>u8</i>	Co	יטיי	co.	Difo	airo	MS.	•	•	•	•	٠	•	•
No	te te	ex	ِ درد:	ith ises		itivu do	ue nd	· · · · · · · · · · · · · · · · · · ·	nci	co.	Difo	airo	MS.	•	•	•	•	٠		•
Nor	self te	ex	ເຂ <b>ເ</b> ດ	ith ISPS	· <b>·</b>	do:	ue		inc'i	co.	Difo	airo		•	•	•	•	٠		
Nox	te	ex	(e <b>r</b> c	ises		do	ue	• ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		del de	Fin,in	gro gFo	unctil	DU	Exe	ercis	e.hs			
Not	te		cerc`	1885		do	ue	• • • • • • • • • • • • • • • • • • • •		del de	Bur in	gro gro	MS.	<b>DU</b>	Exe	ercis	e.hs			
Not	· · · · · · · · · · · · · · · · · · ·	<ul><li>€X</li></ul>	æsci	18PS		do				se de	B.W.M.	gro gro	unctio	<b>D</b> n	Exe	ercis	e, hs		•	•
No			cerc	1885		do.				. de	Burin bio	gro gro	uncti		Exe	ercis	e, hs			•
No	· · · · · · · · · · · · · · · · · · ·		(esc)	\ <b>6</b> 8 <u>\$</u>		do.				Se Se	in in	gro gr	uncti		Exe	ercis	e.hs			
No	· · · · · · · · · · · · · · · · · · ·		cerci			do.				Se Se	Sin in	gro	uniti			ercis	e, hs			
No	· · · · · · · · · · · · · · · · · · ·		iesci			do.					Suria.	gro gro	unctio			ercis	e.hs			
No						do.				Se Se	Sur'in	gro	unctio			ercis	e.hs			
No						do.					Sin in	gro	unis,			ercis				