Erlang basic – solutions

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# The shell

## Job Control Mode

# Basic Types

User switch command

--> j

1\* {shell,start,[init]}

--> h

c [nn] - connect to job

i [nn] - interrupt job

k [nn] - kill job

j - list all jobs

s [shell] - start local shell

r [node [shell]] - start remote shell

q - quit erlang

? | h - this message

--> s shell

--> j

1 {shell,start,[init]}

3\* {shell,start,[]}

--> c 3

Eshell V7.3 (abort with ^G)

1>

User switch command

--> k 3

--> j

1 {shell,start,[init]}

--> c 1

## Numbers

1> 25.

25

2> 3.89.

3.89

3> 2.3e9 / 5.

4.6e8

4> 36#ZF7.

45907

5> $\n.

10

6> 5 div 2.

2

7> 5 rem 2.

1

8> 5 / 3.7.

1.3513513513513513

9> 5 div 3.7.

\*\* exception error: an error occurred when evaluating an arithmetic expression

in operator div/2

called as 5 div 3.7

10> 2.8e-2.

0.028

11> 2#100101.

37

12> 16#BF10.

48912

13> 37#4999.

\* 1: illegal base '37'

13> $H.

72

14> hello@world.

hello@world

15> 'Atoms are awesome'.

'Atoms are awesome'

16> foo == 'foo'.

true

17> "hello world".

"hello world"

## Terms comparison

## Tuples

18> 3 < 4.

true

19> 5 > 7.9.

false

20> foo > 3.

true

21> 2.0 == 2.

true

22> 2.0 =:= 2.

false

23> 0 =< 1.

true

24> true > false.

true

25> 5 =/= 5.0.

true

26> 5 /= 5.0.

false

27> Tuple1 = {size, 5}.

{size,5}

28> Tuple2 = {price, 200}.

{price,200}

29> Tuple3 = {color, blue}.

{color,blue}

30> {size, Value1} = Tuple1.

{size,5}

31> Value1.

5

32> {price, Value2} = Tuple2.

{price,200}

33> Value2.

200

34> {color, Value3} = Tuple3.

{color,blue}

35> Value3.

blue

## Lists and strings

23> List1 = [1|[2|[3|[4|[5|[6]]]]]].

[1,2,3,4,5,6]

24> [A1,A2, A3, A4 | \_] = List1.

[1,2,3,4,5,6]

25> List2 = [A1, A2, A3, A4].

[1,2,3,4]

26> [A5 | List3] = List2.

[1,2,3,4]

27> [A6 | List4] = List3.

[2,3,4]

28> [A7 | List5] = List4.

[3,4]

29> [A8 | List6] = List5.

[4]

30> List6.

[]

31> [A9 | List7] = List6.

\*\* exception error: no match of right hand side value []

32> Reversed = [A8, A7, A6, A5].

[4,3,2,1]

33> Text = "Ala" ++ " " ++ "ma" ++ " " ++ "kota" ++ "!".

"Ala ma kota!"

34> Text.

"Ala ma kota!"

35> Text -- "Aaaaaaaa".

"l m kot!"

# Sequential Erlang

## Modules and functions

## BIFs and guards

# Concurrent Erlang

# Robust systems