Welcome to utop version 1.14 (using OCaml version 4.01.0)!

Type #utop\_help for help about using utop.

```
-( 18:00:00 )-< command 0 >
                                                                             { counter: 0 }-
utop # 1 + 2 ;;
-: int =3
                                                                                            -(13:39:01) -< command 1 >-
                              -{ counter: 0 }-utop # 1.2 +. 3.4 ;;
- : float = 4.6
                                                                                            -(13:39:12) -< command 2 >-
                              { counter: 0 }-utop # 1 + 2.3 ;;
Error: This expression has type float but an expression was expected of type int
                                                                                            -(13:39:23) -< command 3 >-
                              { counter: 0 }-utop # "Helo" ;;
- : string = "Helo"
                                                                                            -(13:39:37) -< command 4>
                              -{ counter: 0 }-utop # 'h' :
- : char = 'h'
                                                                                            -( 13:40:47 )-< command 5 >-
                              -{ counter: 0 }-utop # "hello " @ " world " ;;
Error: This expression has type string but an expression was expected of type 'a list
                                                                                            -(13:40:52) \rightarrow command 6 > -
                              -{ counter: 0 }-utop # "hello "
                                                                  world " ;;
- : string = "hello world "
                                                                                            -( 13:41:06 )-< command 7 >--
                              -{ counter: 0 }-utop # true ;;
                                                                                            -( 13:41:11 )-< command 8 >-
- : bool = true
                             -{ counter: 0 }-utop # 1 > 3 ;;
- : bool = false
                                                                                            -( 13:41:21 )-< command 9 >--
                              -{ counter: 0 }-utop # 22 / 0 ;;
Exception: Division_by_zero.
                                                                                            -(13:41:29) \sim command 10 > -
                              { counter: 0 }-utop # Char.uppercase ;;
- : char -> char = <fun>
                                                                                            -( 13:41:41 )-< command 11 >--
                              { counter: 0 }-utop # Char.uppercase 'f' ;;
- : char = 'F'
                                                                                            -( 13:43:34 )-< command 12 >--
                              -{ counter: 0 }-utop # let x = 3 ;;
val x : int = 3
                                                                                            -( 13:43:47 )-< command 13 >--
                              { counter: 0 }-utop # x + 4 ;;
                                                                                            -(13:44:40) -< command 14 >-
- : int = 7
                              { counter: 0 }-utop # let y = 3.4 ;;
val y: float = 3.4
                                                                                            -(13:44:42) -< command 15 >-
                              -{ counter: 0 }-utop # y ;;
- : float = 3.4
                                                                                            -( 13:44:53 )-< command 16 >-
                              -{ counter: \emptyset }-utop # let x = 3 in x + 2 ;;
-: int = 5
                                                                                            -( 13:44:56 )-< command 17 >-
                              -{ counter: 0 }-utop # x::
-: int =3
                                                                                            -( 13:45:27 )-< command 18 >-
                              -{ counter: 0 }-utop # let x = 5 ;
val x : int = 5
                                                                                            -(13:45:34) \leftarrow command 19 > -
                              -{ counter: 0 }-utop # x ::
-: int = 5
                                                                                            -(13:45:46) -< command 20 >--
                              { counter: \emptyset }-utop # let x = 3 in x + 2;
-: int = 5
                                                                                            -( 13:45:48 )-< command 21 >--
                              -{ counter: 0 }-utop # x ;;
-: int = 5
                                                                                            -( 13:45:52 )-< command 22 >--
                              -{ counter: 0 }-utop # let a = 4 in a + let b = 3 in a + b ;;
-: int = 11
                                                                                            -( 13:45:56 )-< command 23 >--
                              { counter: 0 }-utop # a ;;
Error: Unbound value a
                                                                                            -( 13:47:11 )-< command 24 >-
                              -{ counter: 0 }-utop # let b = 4 ;;
val b : int = 4
                                                                                            -( 13:47:37 )-< command 25 >-
                              { counter: 0 }-utop # b ;;
-: int =4
                                                                                            -( 13:49:03 )-< command 26 >-
                              { counter: 0 }-utop # 1 + let y = 4 in y + 6 ;;
-: int = 11
                                                                                            -(13:49:07) -< command 27 >-
                              { counter: 0 }-utop # y ;;
- : float = 3.4
                                                                                            -( 13:50:48 )-< command 28 >-
                              { counter: 0 }-utop # a ;
Error: Unbound value a
                                                                                            -( 13:51:09 )-< command 29 >--
                              { counter: 0 }-utop # let a = 4 ;
val a : int = 4
                                                                                            -(13:52:50) \rightarrow command 30 > -
                              -{ counter: 0 }-utop # b ;;
                                                                                            -( 13:52:57 )-< command 31 >--
- : int = 4
                              -{ counter: 0 }-utop # let c = a + b ::
                                                                                            -( 13:52:59 )-< command 32 >--
val c : int = 8
                             -{ counter: 0 }-utop # let a = 3
       in
       let b = 4
          a + b ::
-: int = 7
                                                                                            -( 13:53:08 )-< command 33 >--
                              -{ counter: 0 }-utop # c ;;
-: int = 8
                                                                                            -( 13:53:47 )-< command 34 >--
                              -{ counter: 0 }-utop # a ;;
-: int =4
                                                                                            -( 13:55:00 )-< command 35 >--
                              -{ counter: 0 }-utop # let a = 4.5 ;;
val a : float = 4.5
                                                                                            -( 13:55:02 )-< command 36 >--
```

```
-{ counter: 0 }-utop # c ;;
-: int = 8
                                                                                             -( 13:55:06 )-< command 37 >--
                             -{ counter: 0 }-utop # a ;;
- : float = 4.5
                                                                                             -( 13:55:10 )-< command 38 >--
                             -{ counter: 0 }-utop # <u>a</u> + 3 ;;
Error: This expression has type float but an expression was expected of type int
                                                                                             -( 13:55:22 )-< command 39 >--
                              -{ counter: 0 }-utop # a +. 4.0 ;;
- : float = 8.5
                                                                                             -( 13:56:09 )-< command 40 >--
                             -{ counter: 0 }-utop # a ;;
-: float = 4.5
                                                                                             -( 13:56:15 )-< command 41 >--
                             -{ counter: 0 }-utop # let a = hey you ;;
Error: Unbound value hey_you
                                                                                             -( 13:56:22 )-< command 42 >--
                              -{ counter: 0 }-utop # (+) ;;
- : int -> int -> int = <fun>
                                                                                             -( 13:56:53 )-< command 43 >--
                              -{ counter: 0 }-utop # (+.) ;;
- : float -> float -> float = <fun>
                                                                                             -( 14:00:15 )-< command 44 >--
                             -{ counter: 0 }-utop # 3 / 5;
;;
- : int = 0
                                                                                             -( 14:00:26 )-< command 45 >--
                             -{ counter: 0 }-utop # 3.0 /. 5.0 ;;
-: float = 0.6
                                                                                             -(14:00:42) -< command 46 >-
                             -{ counter: 0 }-utop # let x = 4 ;;
val x : int = 4
                                                                                             -(14:00:50) \rightarrow command 47 > -
                             -{ counter: 0 }-utop # 0 ;;
-: int = 0
                                                                                             -( 14:01:24 )-< command 48 >--
                             —{ counter: 0 }—utop # 0.0 ;;
- : float = 0.
                                                                                             -(14:02:09) \sim command 49 > -
                             -{ counter: 0 }-utop # let x : int = 6 ;;
val x : int = 6
                                                                                             -(14:02:12) \leftarrow command 50 > -
                             -{ counter: 0 }-utop # let inc x = x + 4 ;;
val inc : int -> int = <fun>
                                                                                             -( 14:02:55 )-< command 51 >--
                             -{ counter: 0 }-utop # inc 5 ;;
- : int = 9
                                                                                             -( 14:03:26 )-< command 52 >--
                             -{ counter: 0 }-utop # let inc_V2 = fun x -> x + 1 ;;
val inc_V2 : int -> int = <fun>
                                                                                             -( 14:03:29 )-< command 53 >--
                             -{ counter: 0 }-utop # inc_V2 5 ;;
                                                                                             -( 14:03:54 )-< command 54 >--
                              { counter: 0 }-utop # let cicrcle_area = fun x -> 3.141592
                                                                                             -( 14:04:04 )-< command 55 >-
val cicrcle_area : float -> float = <fun>
                             -{ counter: 0 }-utop # cicrcle_area 4.5 ;;
- : float = 63.617238
                                                                                             -( 14:09:32 )-< command 56 >--
                             -{ counter: 0 }-utop # let add x y = x + y ;;
val add : int -> int -> int = <fun>
                                                                                             -( 14:09:54 )-< command 57 >--
                            —{ counter: 0 }-utop # add 3 4 ;;
-: int = 7
                                                                                             -( 14:10:16 )-< command 58 >----( 14:10-( 1
-( 14:10:43 )-< command 59 >-
                                                                                                                           -{ counter: 0 }-
utop #
Arg | Arith_status | Array | ArrayLabels | Assert_failure | Big_int | Bigarray | Buffer | Callback | CamlinternalLazy | CamlinternalMod | Camlinternal00 | C
Array | Array | Array | Array | Array | Assert_failure | Big_int | Bigarray | Buffer | Callback | Caml
```