

## Chapter 4

### Node JS REPL

#### Node.js REPL

The term REPL stands for **Read Eval Print and Loop**. It specifies a computer environment like a window console or a Unix/Linux shell where you can enter the commands and the system responds with an output in an interactive mode.

#### REPL Environment

The Node.js or node come bundled with **REPL environment**. Each part of the REPL environment has a specific work.

**Read:** It reads user's input; parse the input into JavaScript data-structure and stores in memory.

**Eval:** It takes and evaluates the data structure.

**Print:** It prints the result.

**Loop:** It loops the above command until user press ctrl-c twice.

#### How to start REPL

You can start REPL by simply running "**node**" on the command prompt. See this:

You can execute various mathematical operations on REPL Node.js command prompt:

#### Node.js **Simple expressions**

After starting REPL node command prompt put any mathematical expression:

Example: **>10+20-5**  
25

//.....

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## Using variable

Variables are used to store values and print later. If you don't use var keyword then value is stored in the variable and printed whereas if var keyword is used then value is stored but not printed. You can print variables using console.log().

//.....

## Node.js Multiline expressions

Node REPL supports multiline expressions like JavaScript. See the following do-while loop example:

```
var x = 0
undefined
> do {
... x++;
... console.log("x: " + x);
... } while ( x < 10 );
```

//.....

## Node.js Underscore Variable

You can also use `underscore _` to get the last result.

//.....

## Node.js REPL Commands

### `ctrl + c`

It is used to terminate the current command.

### `ctrl + c twice`

It terminates the node repl.

### `ctrl + d`

It terminates the node repl.

### `up/down keys`

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It is used to see command history and modify previous commands.

**tab keys**

It specifies the list of current command.

**.help**

It specifies the list of all commands.

**.break**

It is used to exit from multi-line expressions.

**.clear**

It is used to exit from multi-line expressions.

**.save filename**

It saves current node repl session to a file.

**.load filename**

It is used to load file content in current node repl session.

//.....

## **Node.js Exit REPL**

Use **ctrl + c command twice** to come out of Node.js REPL.