```
Command Prompt - node

C:\Users\TOFE\Desktop\blockchain\week3\web3practice>npm install web3 --save
npm WARN deprecated mkdirp-promise@5.0.1: This package is broken and no longer maintained. 'mkdirp' itself supports promises now, please switch to that.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated multicodec@0.5.7: stable api reached

> bufferutil@4.0.3 install C:\Users\TOFE\Desktop\blockchain\week3\web3practice\node_modules\bufferutil
> node-gyp-build


> keccak@3.0.1 install C:\Users\TOFE\Desktop\blockchain\week3\web3practice\node_modules\keccak
> node-gyp-build || exit 0


> secp256k1@4.0.2 install C:\Users\TOFE\Desktop\blockchain\week3\web3practice\node_modules\secp256k1
> node-gyp-build || exit 0


> utf-8-validate@5.0.4 install C:\Users\TOFE\Desktop\blockchain\week3\web3practice\node_modules\utf-8-validate
> node-gyp-build

npm WARN saveError ENOENT: no such file or directory, open 'C:\Users\TOFE\Desktop\blockchain\week3\web3practice\package.json'
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN enoent ENOENT: no such file or directory, open 'C:\Users\TOFE\Desktop\blockchain\week3\web3practice\package.json'
npm WARN web3practice No description
npm WARN web3practice No repository field.
npm WARN web3practice No README data
npm WARN web3practice No license field.

+ web3@1.3.4
added 352 packages from 328 contributors and audited 352 packages in 33.133s

44 packages are looking for funding
  run `npm fund` for details

found 1 low severity vulnerability
  run `npm audit fix` to fix them, or `npm audit` for details

C:\Users\TOFE\Desktop\blockchain\week3\web3practice>node
Welcome to Node.js v14.15.5.
Type ".help" for more information.
> var Web3 = require('web3');
undefined
> web3
Uncaught ReferenceError: web3 is not defined
> Web3
[Function: Web3] {
  version: '1.3.4',
  utils: {
```

```
Uncaught ReferenceError: web3 is not defined
> Web3
[Function: Web3] {
  version: '1.3.4',
  utils: {
    _fireError: [Function: _fireError],
    _jsonInterfaceMethodToString: [Function: _jsonInterfaceMethodToString],
    _flattenTypes: [Function: _flattenTypes],
    randomHex: [Function: randomHex],
    _: <ref *1> [Function: _] {
      _: [Circular *1],
      VERSION: '1.9.1',
      iteratee: [Function: builtinIteratee],
      forEach: [Function (anonymous)],
      each: [Function (anonymous)],
      collect: [Function (anonymous)],
      map: [Function (anonymous)],
      inject: [Function (anonymous)],
      foldl: [Function (anonymous)],
      reduce: [Function (anonymous)],
      foldr: [Function (anonymous)],
      reduceRight: [Function (anonymous)],
      detect: [Function (anonymous)],
      find: [Function (anonymous)],
      select: [Function (anonymous)],
      filter: [Function (anonymous)],
      reject: [Function (anonymous)],
      all: [Function (anonymous)],
      every: [Function (anonymous)],
      any: [Function (anonymous)],
      some: [Function (anonymous)],
      include: [Function (anonymous)],
      includes: [Function (anonymous)],
      contains: [Function (anonymous)],
      invoke: [Function (anonymous)],
      pluck: [Function (anonymous)],
      where: [Function (anonymous)],
      findWhere: [Function (anonymous)],
      max: [Function (anonymous)],
      min: [Function (anonymous)],
      shuffle: [Function (anonymous)],
      sample: [Function (anonymous)],
      sortBy: [Function (anonymous)],
      groupBy: [Function (anonymous)],
      indexBy: [Function (anonymous)],
      countBy: [Function (anonymous)],
      toArray: [Function (anonymous)],
      size: [Function (anonymous)],
      partition: [Function (anonymous)],
      take: [Function (anonymous)],
```

```
    initial: [Function (anonymous)],
last: [Function (anonymous)],
drop: [Function (anonymous)],
tail: [Function (anonymous)],
rest: [Function (anonymous)],
compact: [Function (anonymous)],
flatten: [Function (anonymous)],
without: [Function (anonymous)],
unique: [Function (anonymous)],
uniq: [Function (anonymous)],
union: [Function (anonymous)],
intersection: [Function (anonymous)],
difference: [Function (anonymous)],
unzip: [Function (anonymous)],
zip: [Function (anonymous)],
object: [Function (anonymous)],
findIndex: [Function (anonymous)],
findLastIndex: [Function (anonymous)],
sortedIndex: [Function (anonymous)],
indexOf: [Function (anonymous)],
lastIndexOf: [Function (anonymous)],
range: [Function (anonymous)],
chunk: [Function (anonymous)],
bind: [Function (anonymous)],
partial: [Function],
bindAll: [Function (anonymous)],
memoize: [Function (anonymous)],
delay: [Function (anonymous)],
defer: [Function: bound],
throttle: [Function (anonymous)],
debounce: [Function (anonymous)],
wrap: [Function (anonymous)],
negate: [Function (anonymous)],
compose: [Function (anonymous)],
after: [Function (anonymous)],
before: [Function (anonymous)],
once: [Function: bound],
restArguments: [Function: restArguments],
keys: [Function (anonymous)],
allKeys: [Function (anonymous)],
values: [Function (anonymous)],
mapObject: [Function (anonymous)],
pairs: [Function (anonymous)],
invert: [Function (anonymous)],
methods: [Function (anonymous)],
functions: [Function (anonymous)],
extend: [Function (anonymous)],
assign: [Function (anonymous)],
extendOwn: [Function (anonymous)],
findKey: [Function (anonymous)],
```

```
  unitMap: {
    noether: '0',
    wei: '1',
    kwei: '1000',
    Kwei: '1000',
    babbage: '1000',
    femtoether: '1000',
    mwei: '1000000',
    Mwei: '1000000',
    lovelace: '1000000',
    picoether: '1000000',
    gwei: '1000000000',
    Gwei: '1000000000',
    shannon: '1000000000',
    nanoether: '1000000000',
    nano: '1000000000',
    szabo: '1000000000000',
    microether: '1000000000000',
    micro: '1000000000000',
    finney: '1000000000000000',
    milliether: '1000000000000000',
    milli: '1000000000000000',
    ether: '1000000000000000000',
    kether: '1000000000000000000000',
    grand: '1000000000000000000000',
    mether: '1000000000000000000000000',
    gether: '1000000000000000000000000000',
    tether: '1000000000000000000000000000000'
  },
  toWei: [Function: toWei],
  fromWei: [Function: fromWei],
  padLeft: [Function: leftPad],
  leftPad: [Function: leftPad],
  padRight: [Function: rightPad],
  rightPad: [Function: rightPad],
  toTwosComplement: [Function: toTwosComplement],
  isBloom: [Function: isBloom],
  isUserEthereumAddressInBloom: [Function: isUserEthereumAddressInBloom],
  isContractAddressInBloom: [Function: isContractAddressInBloom],
  isTopic: [Function: isTopic],
  isTopicInBloom: [Function: isTopicInBloom],
  isInBloom: [Function: isInBloom],
  compareBlockNumbers: [Function: compareBlockNumbers]
},
modules: {
  Eth: [Function: Eth] { givenProvider: null, providers: [Object] },
  Net: [Function: Net] { givenProvider: null, providers: [Object] },
  Personal: [Function: Personal] { givenProvider: null, providers: [Object] },
  Shh: [Function: Shh] { givenProvider: null, providers: [Object] },
  Bzz: [Function: Bzz] { givenProvider: null }
```