Day 2

Command Line Options

Globals

OS Module

Timers

Errors

DNS

CL options – It provides various ways to execute the scripts and other run-time options

Nodejs usage syntax

“ node <filename.js>”

“node -v or –version” used to print the version of node

“node –h or –help” used to print all CL options

“node –e or –eval script” used to evaluate the script.

“node –p or –print script” similar to –e but prints result

“node –c or –check” used to check the syntax without executing

“node –I or –interactive” Opens REPL mode

“node –no-deprecation” used to avoid deprecation warnings

“node –trace-deprecation” used to print stack traces of deprecation

“node –throw-deprecation” used to throw deprecation

“node –no-warning” used to silent all warnings (includes deprecation)

**Globals – NodeJS**

Global objects are available for all the module

Console

Process

Buffer

\_\_dirname = Is a string which specifies the name of dir

\_\_filename

setInterval(callback)

clearInterval(intervalObj)

setTimeout(callback)

clearTimeout(timeoutObj)

setImmediate(callback)

clearImmediate(immediateObj)

**OS – Module**

This module provide many functions related to operating system.

os.arch() – Used to fetch CPU architecture of OS

os.cpus() – Used to fetch array of objects No of CPU/core, model,speed (M/GHz)

os.homedir()

os.hostname()

os.freemem() – returns system free memory in bytes

Timer – Module

This module provides many timer Global functions

Set functions

- setImmediate()

- setInterval()

-setTimeout()

Clear functions

* clearInterval()
* clearImmediate()
* clearTimeout()

**Error – Module**

There are 4 types of errors in Nodejs based applications

* Standard JavaScript Errors (EvalErrors, RangeErrors, SyntaxError, ReferenceError, TypeError etc.,)
* System Errors
* User-Specific Error
* Assertion Errors

**DNS Module**

It contains many methods related to DNS lookup, getServers, setServers,resolve

* dns.getServers()
* dns.setServers(servers)
* dns.lookup(hostname,callback)
* dns.loopupService(address,port,callback)

**Net Module**

This module provides the ability to do socket.

Socket Programming

* Chat Applications
* Communication Client
* Server based Applications

Example :

Two Node Prompts

1. VS Code Terminal for Server
2. Windows Stand-alone Command Prompt (Client)