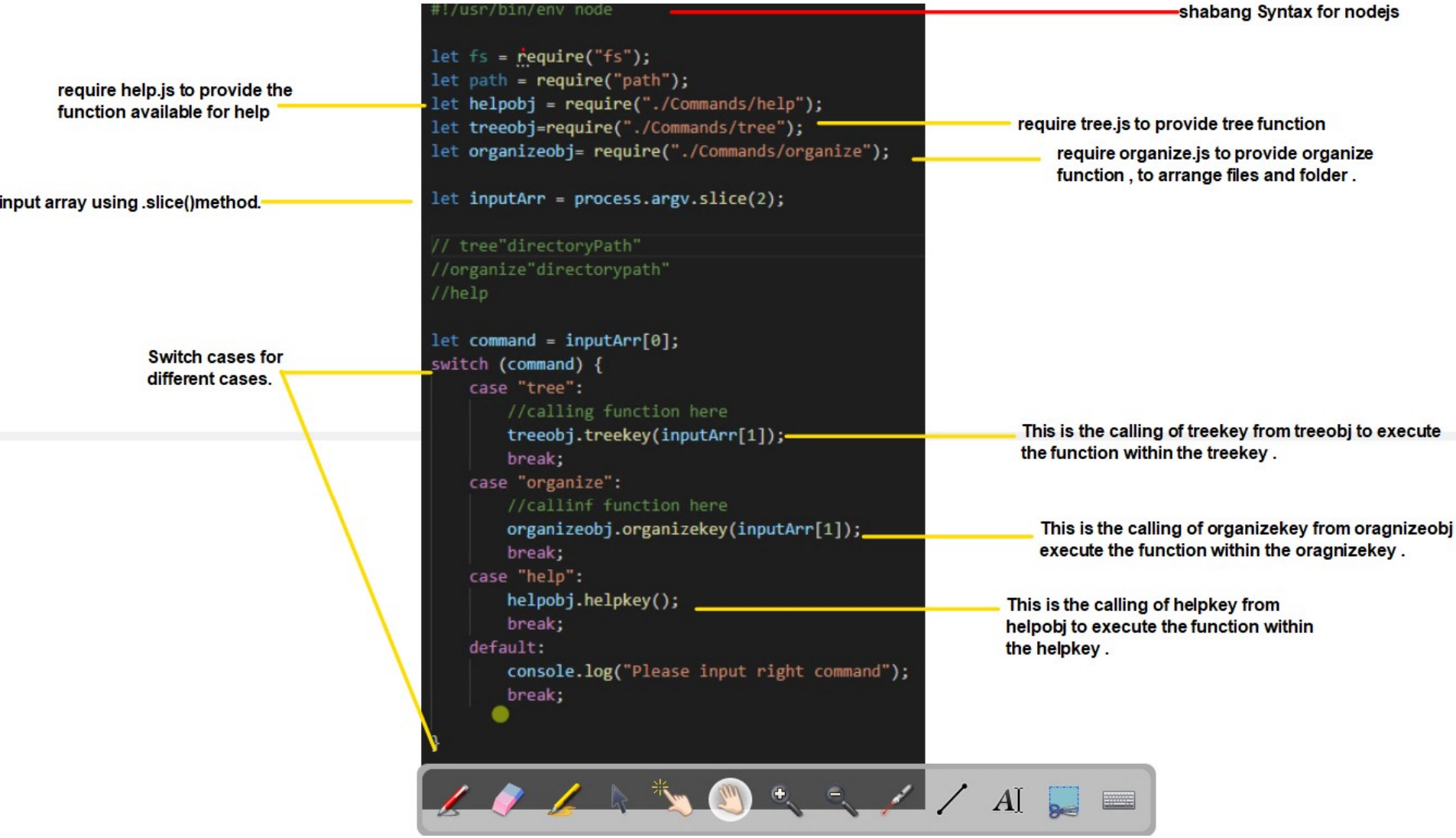

#!/usr/bin/env node
let fs = require("fs");
let path = require("path");
let helpobj = require("./Commands/help");
let treeobj=require("./Commands/tree");
let organizeobj= require("./Commands/organize");
let inputArr = process.argv.slice(2);
// tree"directoryPath"
//organize"directorypath"
//help
let command = inputArr[0];
switch (command) {
case "tree":
//calling function here
treeobj.treekey(inputArr[1]);
break;
case "organize":
//callinf function here
organizeobj.organizekey(inputArr[1]);
break;
case "help":
helpobj.helpkey();
break;
default:
console.log("Please input right command");
break;
shabang Syntax for nodejs
require help.js to provide the function available for help
require tree.js to provide tree function
require organize.js to provide organize function , to arrange files and folder .
input array using .slice()method.
Switch cases for different cases.
This is the calling of treekey from treeobj to execute the function within the treekey .
This is the calling of organizekey from oragnizeobj to execute the function within the oragnizekey .
This is the calling of helpkey from helpobj to execute the function within the helpkey .

Help function

dirPath = it is directory path variable.

module.exports ,it is a used to export the this module to main program file ,where we want to call this function,

intializing a helpkey to invoke the help function when called throughkey.

Tree Function

require path: it is an inbuilt module ,used for path manipulation of given file or folder

```
let fs=require("fs")
let path=require("path")
function treefn(dirPath) {
    // console.log("tree command implemented for :",dirPath);
    // let Folder_Name;
    // console.log("organize command implemented for :",dirPath);
    // 1.input-- directory path given
    // 2.create -- directory path given
    // 3.check all files--identify file types
    // 4.copy/cut -- files to organized directory in given categories
    if (dirPath == undefined) {
        treehelper(process.cwd(),"");
    } else {
        let doesFolderExists = fs.existsSync(dirPath);
        if (doesFolderExists) {
            treehelper(dirPath, "");


        } else {
            console.log("Please Enter the correct path");
            return;
        }

    }
}
    function treehelper(dirPath, indent) {
        let isfile = fs.lstatSync(dirPath).isFile();
        if (isfile == true) {
            let filename = path.basename(dirPath);
            console.log(indent + "-----" + filename);
        } else {
            let dirName = path.basename(dirPath);
            console.log(indent + ">>>>>>>" + dirName);
            let children = fs.readdirSync(dirPath);
            for (let i = 0; i < children.length; i++) {
                let children_path = path.join(dirPath, children[i]);
                treehelper(children_path, indent + "\t");
            }

        }

    }

    module.exports = {
        treekey:treefn
    }
```

calling the function in current working directory.

undefined: it is shown , when we do not give filepath or give incorrect filepath.

this is given for identation/space.

Checking if the given directory path exist or not.

if directory path exists , call helper()function.

Checking if at the given dirPath is a file and if it is file ,give the name of file at the base of path.
or at the last of path.

If there is folder at the base of the path , give the folder name.

Reading inside the folder to check for further child files or folder.

Array to check within the folder for its child files and folder and getting there individual path.

calling of treehelper() function within the array to again check for files and folder and do the same thing again.
That is, if it is file ,give the filename and if, it is folder ,give its name and check within the folder for its child files and folders

key and value pair within the module .
key is called from the main program and it invokes the function(value) within it.

Organize Function

it is a types object ,with different attributes.
It will be used in the program to categorize the types of files present according to attributes given in the types object.

folder_name variable with the path and name of destination folder, known as Organized_folder.

calling of organizeHelper()function, with arguments passes are source address and destionation folder.

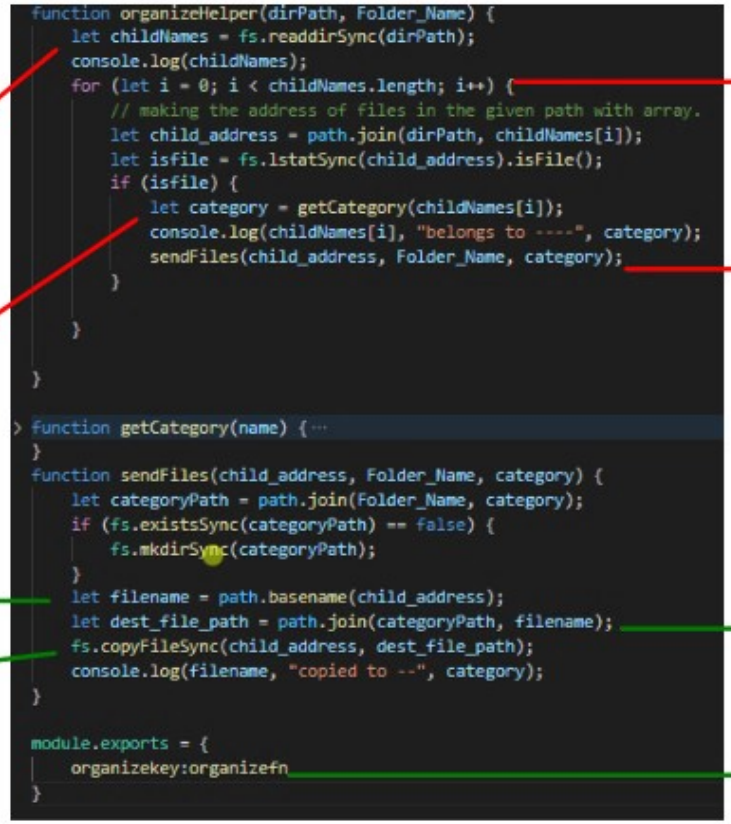
making the folder/ directory with this method.

```
let fs=require("fs")
let path=require("path")
let types = {
    media: ['mp4', 'mkv'],
    archives: ['zip', '7z', 'rar', 'tar', 'gz', 'ar', 'iso', 'xz'],
    app: ['exe', 'dmg', 'pkg', 'deb'],
    documents: ['docx', 'doc', 'pdf', 'xlsx', 'xls', 'odt', 'ods', 'odf', 'txt', 'js', 'tex'],
}
function organizefn(dirPath) {

    let Folder_Name;
    // console.log("organize command implemented for :",dirPath);
    // 1.input-- directory path given
    // 2.create -- directory path given
    // 3.check all files--identify file types
    // 4.copy/cut -- files to organized directory in given categories
    if (dirPath == undefined) {
        Folder_Name = process.cwd();
    } else {
        let doesFolderExists = fs.existsSync(dirPath);
        if (doesFolderExists) {
            Folder_Name = path.join(dirPath, "Organized_folder");
            if (fs.existsSync(Folder_Name) == false) {
                fs.mkdirSync(Folder_Name);

            }

        } else {
            console.log("Please Enter the correct path");
            return;
        }
    }
    // making organizeHelper() function to help in organizing the files.
    organizeHelper(dirPath, Folder_Name)
}
```



reading the content of the given directory at the base of the given path.

loop to read the content within the childNames , with content of the directory at the base of the dirPath.

Getting the value of individual files or folder path with the array.
and the calling of getCategory function.

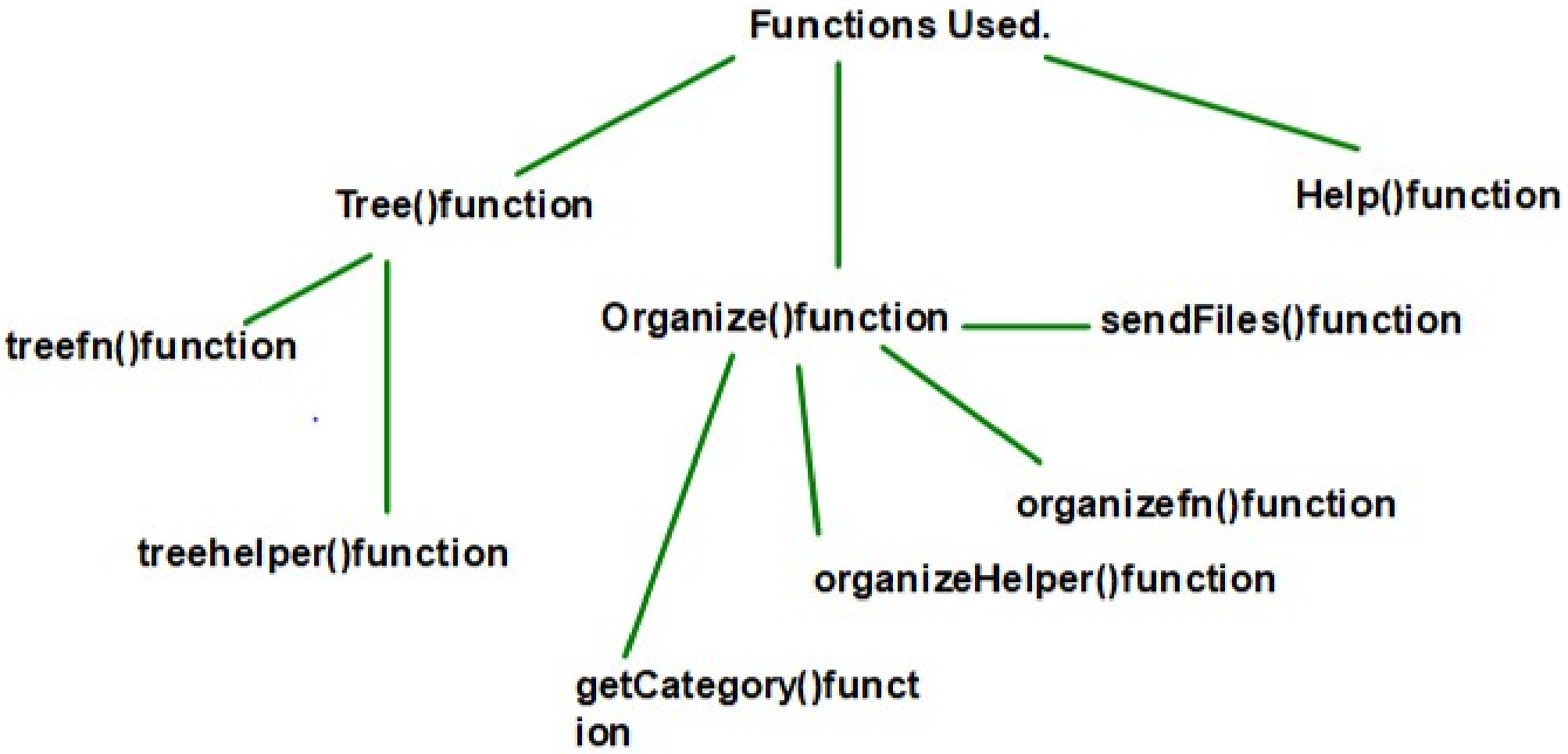
calling sendFiles()function ,with arguments as the address of childs of the source directory ,destination folder and category .

getting to know the filename by using the basename() method.

getting to know the destination organized folder address with the folder categories.

we are copying the content of the folder at the given child address and pasting it in the destination organized folder.

initializing the key and value pair for the given module export.
when we call the given organizeKey ,the function related with the key gets executed.


Functions Used.
Tree()function
Help()function
treefn()function
Organize()function
sendFiles()function
treehelper()function
organizefn()function
organizeHelper()function
getCategory()funct
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