Project

This project is designed to get you familiar with the basics of how to implement a project in node.js. First, ensure node is installed on your system. Second, you'll need to run a command in order to set up the project from the root directory:

```
npm install
```

Don't worry about what this does just yet, we'll cover that later. After you've ran this command you should see output similar to the following:

1. bash

```
jduv@gaspar-iii calc >npm install
npm WARN calc@1.0.0 No repository field.

up to date in 0.159s
jduv@gaspar-iii calc >
```

and give it a look:

There are a few interesting files in this project. First up is package.json. Let's open that file up

```
{
  "name": "calc",
 "version": "1.0.0",
 "description": "A calculator package",
 "main": "index.js",
  "scripts": {
    "start": "node index.js",
   "test": "mocha -w"
  },
 "author": "jduv",
 "license": "ISC",
  "dependencies": {
   "mocha": "^4.0.1",
    "should": "^13.1.2"
 }
}
```

will have one of these—so it's important to understand what it is and how it's used.

In addition to the package file, note the index.js and the strings.js files. The *index* file contains the skeleton of our program. The *strings* file is where you'll be making your changes.

This file describes the author of the code, the dependencies required to run our project, and

how a few npm commands are executed (discussed in a bit). Every non-trivial node.js project

There's also an interesting file in the __test__ directory that we'll discuss more in a bit. You will be using the tests in that file to grade your own solution!

Running the Project

1. node

jduv@gaspar-iii proj1 >npm start

Running the project is simple, just type npm start:

```
> calcal.0.0 start /Users/jduv/Developer/7factor/digitalcrafts/wk10_node_sql_aws/proj1 > node index.js

PRJ1>

You're task is to implement the functions located in the strings.js file. Check that file for the
```

Ground rules for implementation:
 You cannot use any built in functions. That takes all the fun out of it.
 Read the testing section very carefully. You need to ensure that all your tests pass before you're done with the project.

details of what each function should do along with the test file located in the __tests__

you type after the command will be passed as an argument to the respective function.

directory. You can invoke your functions by running one of the following four commands after

executing an npm start: [reverse, is-pallindrome, shift, is-number]. The next string

This project ships with the mocha test runner. This library provides ways for us to write

After the tests run you should see the following:

jduv@gaspar-iii proj1 >npm test

0 passing (12ms)

1) Strings Module

12 passing (11mg)

jduv@gaspar-iii proj1 >

reverse function

should return a reversed string: AssertionError: expected undefined to exist

12 failing

Tests

function we're implementing. To run the tests:

npm test

automated tests for each of our functions. These tests will validate if our function works the way

it should. Inside the __tests__/strings_test.spec.js file you'll find a set of tests for each

calc@1.0.0 test /Users/jduv/Developer/7factor/digitalcrafts/wk10_node_sql_aws/proj1

1. bash

Make sure you read the tests because they will provide you with specific examples of what the functions you're building should do.