```
arpit
                                  int sum(int num)
            sum(5);
                                  1+2+..n
                    15
                       validateFirstname(firstname)
                                  return "Firstname can not be null" / " can have only alphabets and . "
                                  return ""
                       validateFirstname("abcd");
                       validateFirstname("abcd#434");
                       can have only alphabets and .
                       validateFirstname("");
                       can not be blank
 Steps to implement testing using Jasmin framework
1 Download jasmine framework
2 Extract the framework zip file
```

3

src

spec

keep js logic files

keep test case files

## 4 SpecRunner.html add above js files references

example src folder

```
| Some constant const co
```

## spec example

```
spec > J5 OperationsSpec.js > ...

// describe() creates testsuite
describe("Operations-add() method testing", ()=>{

// in testsuite, creates test case
it("Test add() with positive result", ()=>{
    expect(add(3,4)).toEqual(7);
};
it("Test add() with positive result", ()=>{
    expect(add(4,9)).toEqual(13);
};

describe("Operations-checkleap() method testing", ()=>{
    it("Test checkleap() : passing leap", ()=>{
    expect(checkleap(2023)).toBeFalsy();
};

it("Test checkleap() : passing non leap", ()=>{
    expect(checkleap() : passing non leap", ()=>{
    expect(checkleap(2024)).toBeTruthy();
};

it("Test checkleap(2024)).toBeTruthy();
};

it("Test checkleap(2024)).toBeTruthy();
};

it("Test checkleap(2024)).toBeTruthy();
};
```

## add src / spec js files references in html file

```
♦ SpecRunner.html ×
EXAMPLES
                       ♦ SpecRunner.html > ♦ html
> lib
                            <!DOCTYPE html>
> spec
                              <meta charset="utf-8">
■ MIT.LICENSE
                              <title>Jasmine Spec Runner v4.0.0</title>
SpecRunner.html
                              <link rel="shortcut icon" type="image/png" href="lib/jasmine-4.0.0/jasmine_favicon.png">
                              <link rel="stylesheet" href="lib/jasmine-4.0.0/jasmine.css">
                               <script src="lib/jasmine-4.0.0/jasmine-html.js"></script>
                               <script src="lib/jasmine-4.0.0/boot0.js"></script>
                               <!-- optional: include a file here that configures the Jasmine env -->
                               <script src="lib/jasmine-4.0.0/boot1.js"></script>
                              <script src="src/Operations1.js"></script>
                              <script src="spec/OperationsSpec.js"></script>
                        26 </html>
      describe ()
                   used to make test suite
      describe ( ___ , ___ );
      title of test suite
      callback with test case(s)
      it()
                   used to make testcase
      describe ( ___ , ___ );
      title of testcase
      callback with function test
```