import the necessary things

⟨*import statements*⟩≡
```
var analyzer = require('./analyzer');
var synthesizer = require('./synthesizer');
```

this is the parse part

⟨*parse*⟩≡
```
/*
  this function will take in the jade input and will return the parseTree
  also called analyzer
*/
function parse(jadeString){
  return analyzer.parse(jadeString);
}
```

this is the synthesizer part

⟨*synthesis*⟩≡
```
/*
  this function will take a
 */
function synthesis(syntaxTree){
  return synthesizer.convert(syntaxTree);
}
```

this is the render part

⟨*render*⟩≡
```
/*
 * function that will return the string, that represents the output
 */
function render(jadeString, options){
  syntaxTree = parse(jadeString);
  outputHtml = synthesis(syntaxTree);
  return outputHtml;
}
```

this is just setting up the api, to enusre which functions other users can use

⟨*api*⟩≡
```
// make the API functions, it will only have render and compile
module.exports.parse = parse;
module.exports.synthesis = synthesis;
module.exports.render = render; // will take in the jadeimp code and return the html as a
module.exports.compile = function(jadeimpString){
  return function(){ return render(jadeString, options);  }
}
```

this is the part of the code that will actually render the code

⟨*index.nw*⟩≡
```
⟨import statements⟩
⟨render⟩
⟨parse⟩
⟨synthesis⟩
⟨render⟩
⟨api⟩
```