



```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>React_W2_GuGuDan</title>
8    </head>
9
10   <body>
11     <div id="root"></div>
12     <script src = "../dist/app.js"></script>
13   </body>
14 </html>
```



```
1  {
2    "name": "gugudan",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "dev" : "webpack"
8    },
9    "author": "CJH",
10   "license": "ISC",
11   "dependencies": {
12     "react": "^17.0.2",
13     "react-dom": "^17.0.2"
14   },
15   "devDependencies": {
16     "@babel/core": "^7.15.5",
17     "@babel/preset-env": "^7.15.4",
18     "@babel/preset-react": "^7.14.5",
19     "babel-loader": "^8.2.2",
20     "webpack": "^5.52.0",
21     "webpack-cli": "^4.8.0"
22   }
23 }
24
```




```
1  const path = require('path');
2  const { webpack } = require('webpack');
3  const LoaderOptionsPlugin = require('webpack/lib/LoaderOptionsPlugin');
4
5  module.exports = {
6    mode: 'development',
7    devtool: 'eval', //서비스시 hidden-source-map
8    resolve: {
9      extensions: ['.jsx', '.js'],
10   },
11
12   entry: {
13     app: './client',
14
15   },
16   module: {
17     rules: [{
18       test: /\.jsx?$/,
19       loader: 'babel-loader',
20       options: {
21         presets: [
22           ['@babel/preset-env', {
23             targets: {
24               browsers: ['> 5% in KR', 'last 2 chrome versions'],
25             },
26             debug: true,
27           }],
28           '@babel/preset-react'
29         ],
30         plugins: [],
31       }
32     ]],
33   },
34   plugins: [
35     new LoaderOptionsPlugin({ debug : true }),
36   ],
37   output: {
38     filename: 'app.js',
39     path: path.join(__dirname, "dist"),
40
41   },
42
43   },
44
45   };
```




```
1  const React = require('react');
2  const {useRef, useState} = React;
3
4  const GuGuDan = () => {
5    const [first, setFirst] = useState(Math.ceil(Math.random() * 9));
6    const [second, setSecond] = useState(Math.ceil(Math.random() * 9));
7    const [value, setValue] = useState("");
8    const [result, setResult] = useState("");
9    const inputRef = useRef(null);
10
11    const onChangeInput = (e) => {
12      setValue(e.target.value)
13    }
14
15    const onSubmitform = (e) => {
16      e.preventDefault();
17      if (parseInt(value) === first * second) {
18        setResult("정답!" + value);
19        setFirst(Math.ceil(Math.random()*9));
20        setSecond(Math.ceil(Math.random()*9));
21        setValue("");
22        inputRef.current.focus();
23      }else{
24        setResult("땡!");
25        setValue("");
26        inputRef.current.focus();
27      }
28    }
29    return (
30      <>
31        <div> {first} X {second} = ? </div>
32        <form onSubmit = {onSubmitform}>
33          <input ref = {inputRef} onChange = {onChangeInput} value = {value} />
34          <button>입력</button>
35        </form>
36        <div id = "result">{result}</div>
37      </>
38    );
39  };
40
41  module.exports = GuGuDan;
```




```
1  const React = require('react');
2  const ReactDOM = require('react-dom');
3
4  const GuGuDan = require('./GuGuDan');
5
6  ReactDOM.render(<GuGuDan />, document.querySelector('#root'));
```