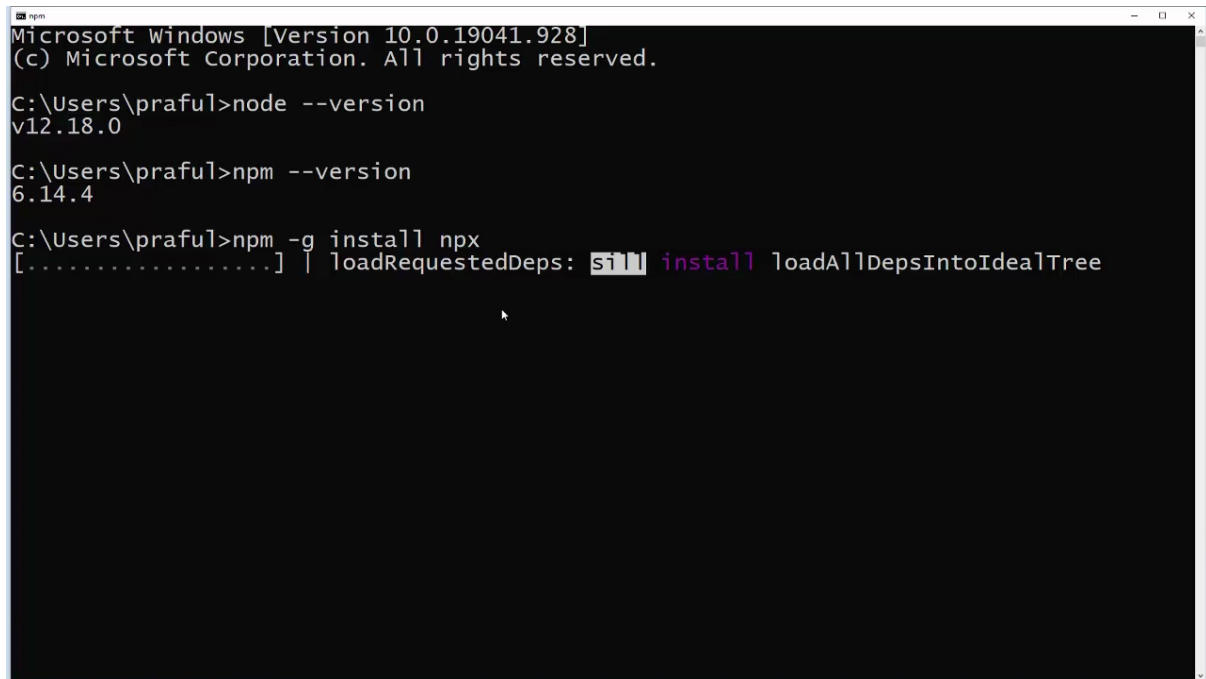


## Install React in your System



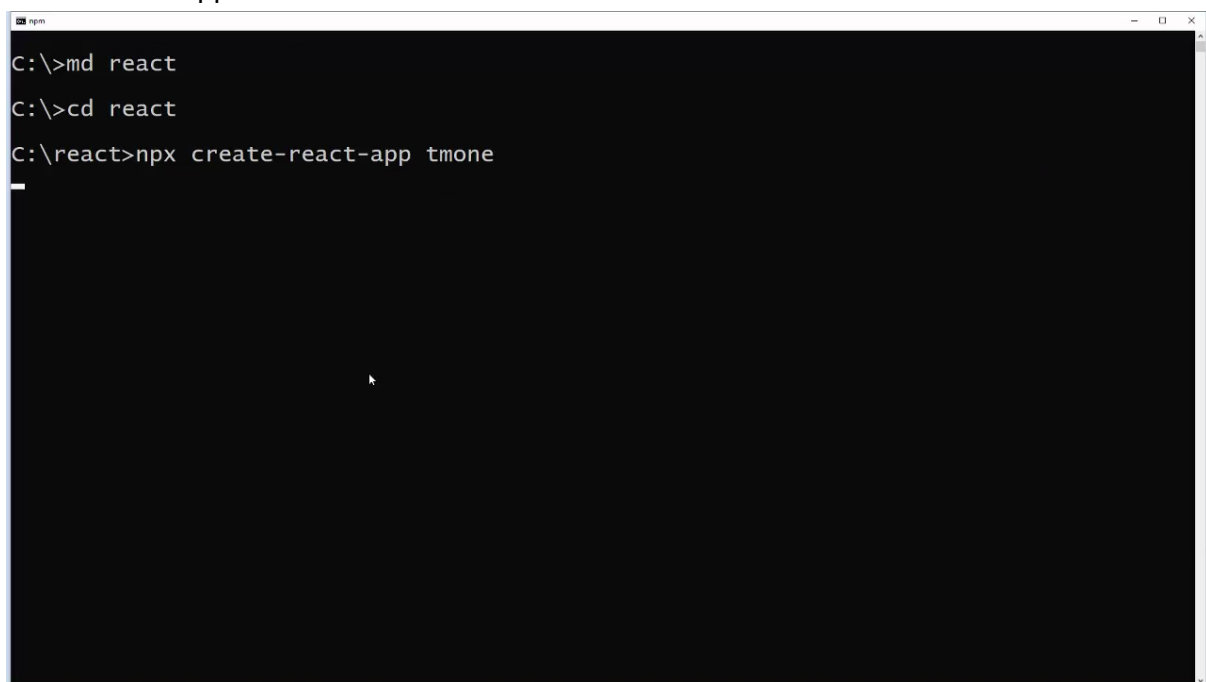
```
Microsoft Windows [Version 10.0.19041.928]
(c) Microsoft Corporation. All rights reserved.

C:\Users\prafu>node --version
v12.18.0

C:\Users\prafu>npm --version
6.14.4

C:\Users\prafu>npm -g install npx
[.....] | loadRequestedDeps: sill install loadAllDepsIntoIdealTree
```

Create folder react and  
Create react -app



```
C:\>md react
C:\>cd react
C:\react>npx create-react-app tmone
```

go tmone

```
Command Prompt
C:\react>dir/b
tmone

C:\react>cd tmone

C:\react\tmone>dir/b
.gitignore
node_modules
package-lock.json
package.json
public
README.md
src
C:\react\tmone>
```

Stat react app using npm Start

```
npm
C:\react>dir/b
tmone

C:\react>cd tmone

C:\react\tmone>dir/b
.gitignore
node_modules
package-lock.json
package.json
public
README.md
src

C:\react\tmone>npx start

> tmone@0.1.0 start C:\react\tmone
> react-scripts start
```

change App.js file

```
*App - Notepad
File Edit Format View Help
import './App.css';

function App() {
  return (
    <div>
      Thinking Machines
    </div>
  );
}

export default App;
```

How to Create component

Let's Create a component

```
*App - Notepad
File Edit Format View Help
import React,{Component} from 'react'
import './App.css';

function App() {
  return (
    <div>
      <h1>Thinking Machines - Ujjain</h1>
      <Tm
    </div>
  );
}

class TMSlogan extends React.Component
{
  render(){
    return (
      <b>
        We Teach More Than We Promise To Teach
      </b>
    );
  }
}

export default App;
```

use The Component in application

It's not a necessary to create Component only this file you can create js file for every Component.

```
App - Notepad
File Edit Format View Help
import './App.css';

function App() {
  return (
    <div>
    <h1>Thinking Machines - Ujjain</h1>
    <TMSlogan />
    </div>
  );
}

class TMSlogan extends React.Component
{
  render(){
    return (
      <b>
        We Teach More Than We Promise To Teach
      </b>
    );
  }
}
export default App;
```

**Create a dynamic Component** .we can use for set the properties use constructor to set the values . i

```
App - Notepad
File Edit Format View Help
import React,{Component} from 'react'
import './App.css';

function App() {
  return (
    <div>
    <h1>Thinking Machines - Ujjain</h1>
    <TMSlogan slogan="We Teach More Than We Promise To Teach" motto="Think Big - Beyond 20-30 LPA"/>
    </div>
  );
}

class TMSlogan extends React.Component
{
  constructor(properties)
  {
    super(properties);
    this.slogan=properties.slogan;
    this.motto=properties.motto;
  }
  render(){
    return (
      <b>
        {this.slogan}<br></br>

```

```
App - Notepad
File Edit Format View Help
Big - Beyond 20-30 LPA"/>
</div>
);
}
class TMSlogan extends React.Component
{
  constructor(props)
  {
    super(props);
    this.slogan=properties.slogan;
    this.motto=properties.motto;
  }
  render(){
    return (
      <b>
        {this.slogan}<br></br>
        {this.motto}<br></br>
      </b>
    );
  }
}
export default App;
```

```
App - Notepad
File Edit Format View Help
Big - Beyond 20-30 LPA"/>
</div>
);
}
class TMSlogan extends React.Component
{
  constructor(props)
  {
    super(props);
    this.slogan=props.slogan;
    this.motto=props.motto;
  }
  render(){
    return (
      <b>
        {this.slogan}<br></br>
        {this.motto}<br></br>
      </b>
    );
  }
}
export default App;
```

Create function in react and call this function .

```

App - Notepad
File Edit Format View Help
import React,{Component} from 'react'
import './App.css';

function App() {

  const goToNextSlogan=function(){
    alert('Go To Next Slogan');
  }

  return (
    <div>
    <h1>Thinking Machines - Ujjain</h1>
    <TMSlogan slogan="We Teach More Than We Promise To Teach" motto="Think
    Big - Beyond 20-30 LPA"/>
    <button type='button' onClick={goToNextSlogan}>Next Slogan</button>
    </div>
  );
}
class TMSlogan extends React.Component
{
  constructor(props)
  {
    super(props);
    this.slogan=props.slogan;
  }
}

```

Dynamic update in component values with using function let's try

Update the value in run time you click the button and change the slogan text

How to achieve that ,We using Reference to change the variable value .

```
*App - Notepad
File Edit Format View Help
import React,{Component,useRef} from 'react'
import './App.css';

function App() {

const tmsloganRef=useRef();

const goToNextSlogan=function(){
tmsloganRef.current.updateSlogan("Computer education is not about
learning computers, it is about learning how to learn computers");
}

return (
<div>
<h1>Thinking Machines - Ujjain</h1>
<TMSlogan slogan="We Teach More Than We Promise To Teach" motto="Think
Big - Beyond 20-30 LPA" ref={tmsloganRef}/>

<button type='button' onClick={goToNextSlogan}>Next Slogan</button>
</div>
).
```

```
*App - Notepad
File Edit Format View Help
{
constructor(props)
{
super(props);
this.state={
"slogan": props.slogan,
"motto": props.motto
};
}
|
updateSlogan(slogan)
{
this.setState({
"slogan": slogan
});
}
render(){
return (
<b>
{this.state.slogan}<br></br>
{this.state.motto}<br></br>
</b>
).
```

```
*App - Notepad
File Edit Format View Help
this.state={
  "slogan": props.slogan,
  "motto": props.motto
};
}
updateSlogan(slogan)
{
  this.setState({
    "slogan": slogan
  });
}
render(){
  return (
    <b>
      {this.state.slogan}<br></br>
      {this.state.motto}<br></br>
    </b>
  );
}
}
export default App;
```