4. JavaScript in JSX with Curly Braces
Tasks:

1. Display today's date in a component using the JavaScript Date object.
TodayDate.jsx
```
import React from 'react'

export default function TodayDate() {
   const TodayDate = new Date().toLocaleString()
  return (
    <>
     <h3>{TodayDate}</h3>
    </>
  )
}
```
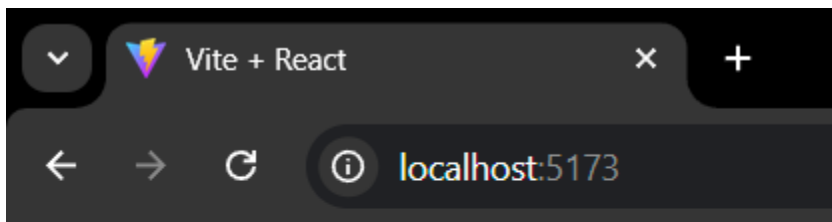**Main.jsx**
```
import TodayDate from './TodayDate.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <TodayDate />
  </StrictMode>
)
```

Output

4/1/2025, 2:41:23 PM

2. Create a component that displays a random quote from a hardcoded list of quotes.
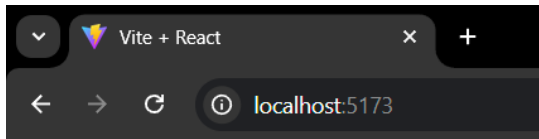**RandomQuote.jsx**
```
import React from 'react'
```

```jsx
export default function RandomQuote() {
    const quotes = ['If you are going through hell, keep going.','If you build it, they will come.','If
you want something done right, do it yourself.','If you want something said, ask a man; if you
want something done, ask a woman.']
  return (
    <>
      <h2>RandomQuote</h2>
      <p>{quotes[Math.floor(Math.random()*quotes.length)]}</p>
    </>
  )
}
```

Main.jsx

```jsx
import RandomQuote from './RandomQuote.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <RandomQuote />
  </StrictMode>
)
```

Output

RandomQuote

If you are going through hell, keep going.

3. Write a component called MathResult that displays the result of a simple
arithmetic operation (e.g., addition) of two hardcoded numbers.

MathResult.jsx

```jsx
import React from 'react'

export default function MathResult() {
    const a = 5
    const b = 10
  return (
    <>
```
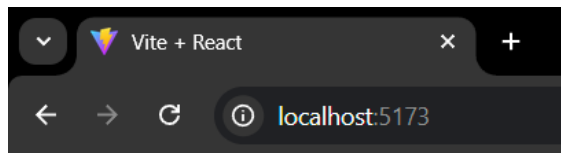
```
    <h3>The addition of {a} and {b}:</h3>
    <h2>{a+b}</h2>
  </>
 )
}
```

Main.jsx
```
import MathResult from './MathResult.jsx'

createRoot(document.getElementById('root')).render(
 <StrictMode>
  <MathResult />
 </StrictMode>
)
```

Output

The addition of 5 and 10:

15

4. Create a component that displays the word count of a hardcoded paragraph.

Paragraph.jsx
```
import React from 'react'

export default function Paragraph() {
   const para = "React is a JavaScript library primarily used for building user interfaces (UIs) for
web applications"
 return (
  <>
     <h3>{para}</h3>
     <h2>{para.split(" ").length}</h2>
  </>
 )
}
```

Main.jsx
```
import Paragraph from './Paragraph.jsx'
```

```
createRoot(document.getElementById('root')).render(
  <StrictMode>
    <Paragraph />
  </StrictMode>
)
```

Output

React is a JavaScript library primarily used for building user interfaces (UIs) for web applications

15

5. Create a component that calculates and displays the product of two hardcoded numbers.

Product.jsx
```
import React from 'react'

export default function Product() {
    const a = 5
    const b = 10
   return (
    <>
       <h3>The product of {a} and {b}:</h3>
       <h2>{a*b}</h2>
    </>
   )
}
```
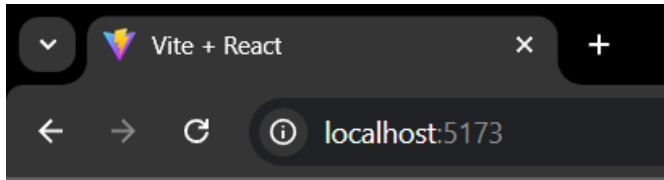**Main.jsx**
```
import Product from './Product.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <Product />
  </StrictMode>
)
```

Output

The product of 5 and 10:

50