

S1: Project and Files

```
C:\demo\jsmarch24\L21>npx create-react-app p2_apapp
C:\demo\jsmarch24\L21>cd p2_apapp
C:\demo\jsmarch24\L21\p2_apapp>npm install formik
C:\demo\jsmarch24\L21\p2_apapp>cd src
C:\demo\jsmarch24\L21\p2_apapp\src>notepad AreaPeri.js
C:\demo\jsmarch24\L21\p2_apapp\src>cd..
C:\demo\jsmarch24\L21\p2_apapp>npm start
```

S2: Coding

AreaPeri.js

```
import { useFormik } from "formik";

export default function AreaPeri()
{
  const initialValues = {"length":"","breadth":"","msg":""};

  const validate = (values) => {
    const errors = {};
    if (values.length === "")
      errors.length = "length is empty";
    if (values.breadth === "")
      errors.breadth = "breadth is empty";
    if (parseFloat(values.length) < 0.0)
      errors.length = "length shud not be -ve";
    if (parseFloat(values.breadth) < 0.0)
      errors.breadth = "breadth shud not be -ve";
    return errors;
  }

  const onSubmit = (values) => {
    let le = parseFloat(values.length);
    let br = parseFloat(values.breadth);
    let area = le * br;
    let peri = 2 * (le + br);
    let ans = "area = " + area.toFixed(2) + " peri = " + peri.toFixed(2);
    formik.setValues({msg:ans});
  }

  const formik = useFormik({initialValues, validate, onSubmit});
```



```

return(
<>
<center>
  <h1> Area Perimeter App </h1>
  <form onSubmit={formik.handleSubmit}>
    <input type="number" step="any" placeholder="enter length"
    name="length" onChange={formik.handleChange}/>
    {formik.errors.length ? <div className="err"> {formik.errors.length} </div> : ""}
    <br/><br/>
    <input type="number" step="any" placeholder="enter breadth"
    name="breadth" onChange={formik.handleChange}/>
    {formik.errors.breadth ? <div className="err"> {formik.errors.breadth} </div> : ""}
    <br/><br/>
    <input type="submit" value="Area & Perimeter " />
  </form>
  <h2> {formik.values.msg} </h2>
</center>
</>
);
}

```

App.js

```

import logo from './logo.svg';
import './App.css';
import AreaPeri from './AreaPeri';

```

```

function App() {
  return (
    <AreaPeri/>
  );
}
export default App;

```

App.css

```

*
{
  font-size:3vw;
}
body
{
  background-color:lightblue;
}
.err
{
  color:red;
}

```