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Kelas : A1 ( SI )

html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculator</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="container">
  <div class="calculator">
    <form>
      <div class="display">
        <input type="text" name="display">
      </div>
      <div>
        <input type="button" value="AC" onclick="display.value = '' "
class="operator">
        <input type="button" value="DE" onclick="display.value =
display.value.toStoring().slice(0,-1)" class="operator">
        <input type="button" value="." onclick="display.value += '.' "
class="operator">
        <input type="button" value="/" onclick="display.value += '/' "
class="operator">
      </div>
      <div>
        <input type="button" value="7" onclick="display.value += '7' ">
        <input type="button" value="8" onclick="display.value += '8' ">
        <input type="button" value="9" onclick="display.value += '9' ">
        <input type="button" value="*" onclick="display.value += '*' "
class="operator">
      </div>
      <div>
        <input type="button" value="4" onclick="display.value += '4' ">
        <input type="button" value="5" onclick="display.value += '5' ">
        <input type="button" value="6" onclick="display.value += '6' ">

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        <input type="button" value="-" onclick="display.value += '-' "
class="operator">
    </div>
    <div>
        <input type="button" value="1" onclick="display.value += '1' ">
        <input type="button" value="2" onclick="display.value += '2' ">
        <input type="button" value="3" onclick="display.value += '3' ">
        <input type="button" value="+" onclick="display.value += '+' "
class="operator">
    </div>
    <div>
        <input type="button" value="00" onclick="display.value += '00' ">
        <input type="button" value="0" onclick="display.value += '0' ">
        <input type="button" value="=" onclick="display.value =
eval(display.value)"class="equal operator">
    </div>
</form>
</div>
</div>
</body>
</html>

```

## CSS

```

*{
    margin: 0;
    padding: 0;
    font-family: 'poppins', sans-serif;
    box-sizing: border-box;
}

.container{
    width: 100%;
    height: 100vh;
    background: #e3f9ff;
    display: flex;
    align-items: center;
    justify-content: center;
}

.calculator{
    background: #3a4452;
    padding: 20px;
    border-radius: 10px;
}

```

```

}
.calculator form input{
  border: 0;
  outline: 0;
  width: 60px;
  height: 60px;
  border-radius: 10px;
  box-shadow: -8px -8px 15px rgb(255, 255, 255, 0.1),5px 5px 15px rgba(0, 0, 0,
0.2);
  background: transparent;
  font-size: 20px;
  color: #fff;
  cursor: pointer;
  margin: 10px;
}

form .display{
  display: flex;
  justify-content: flex-end;
  margin: 20px 0;
}

form .display input{
  text-align: right;
  flex: 1;
  font-size: 45px;
  box-shadow: none;
}

form input .equal{
  width: 145px;
}

form input.operator{
  color: #33ffd8;
}

```

File.js

```

const calculator = {
  displayNumber: "0",
  operator: null,
  firstNumber: null,
  waitingForSecondNumber: false,
};

```

```
const updateDisplay = () => {
  document.querySelector(".your-display-element-selector").innerText =
    calculator.displayNumber;
};

const clearDisplay = () => {
  calculator.displayNumber = "0";
  calculator.operator = null;
  calculator.firstNumber = null;
  calculator.waitingForSecondNumber = false;
  updateDisplay();
};

const inputDigit = (digit) => {
  if (calculator.displayNumber === "0" || calculator.waitingForSecondNumber) {
    calculator.displayNumber = digit;
    calculator.waitingForSecondNumber = false;
  } else {
    calculator.displayNumber += digit;
  }
  updateDisplay();
};

const invertNumber = () => {
  if (calculator.displayNumber === "0") {
    return;
  }
  calculator.displayNumber = (
    parseFloat(calculator.displayNumber) * -1
  ).toString();
  updateDisplay();
};

const equalsNumber = () => {
  if (calculator.firstNumber === null || calculator.operator === null) {
    alert("Anda belum menetapkan operator");
    return;
  }

  let result = 0;
  const secondNumber = parseFloat(calculator.displayNumber);

  if (calculator.operator === "+") {
    result = parseFloat(calculator.firstNumber) + secondNumber;
  }
}
```

```

    } else {
      result = parseFloat(calculator.firstNumber) - secondNumber;
    }

    calculator.displayNumber = result.toString();
    calculator.operator = null;
    calculator.firstNumber = null;
    calculator.waitingForSecondNumber = false;
    updateDisplay();
  };

const handleOperator = (operator) => {
  if (calculator.waitingForSecondNumber) {
    alert("Operator sudah ditetapkan");
    return;
  }

  if (calculator.firstNumber !== null) {
    equalsNumber();
  }

  calculator.operator = operator;
  calculator.waitingForSecondNumber = true;
  calculator.firstNumber = calculator.displayNumber;
  calculator.displayNumber = "0";
};

const performCalculator = () => {
  if (calculator.firstNumber === null || calculator.operator === null) {
    alert("Anda belum menetapkan operator");
    return;
  }

  equalsNumber();
  renderHistory();
};

const buttons = document.querySelectorAll(".button");
for (const button of buttons) {
  button.addEventListener("click", function (event) {
    const target = event.target;

    if (target.classList.contains("clear")) {
      clearDisplay();
    } else if (target.classList.contains("invert")) {

```

```

        invertNumber();
    } else if (target.classList.contains("operator")) {
        handleOperator(target.innerText);
    } else if (target.classList.contains("equals")) {
        performCalculator();
    } else {
        inputDigit(target.innerText);
    }
    });
}

```

