

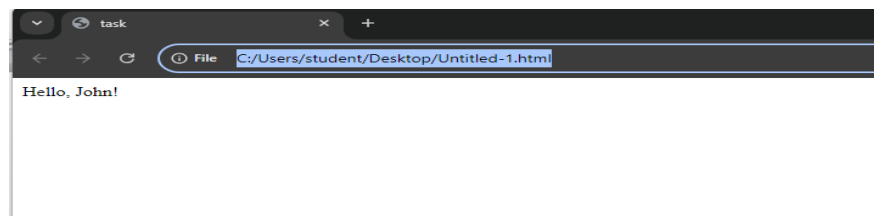
3. Arrow Functions:

Task 51: Declare a simple arrow function named greet that takes one parameter name and returns the string “Hello, name!”. Test your function with various names.

Code:

```
<html><head><title>task</title></head>
<body>
  <script>
    let greet=(name)=>{return "Hello, "+name+"!"};
    document.writeln(greet("John"));
  </script>
</body>
```

Output:

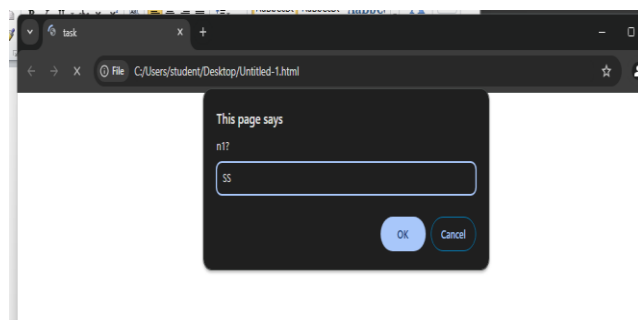


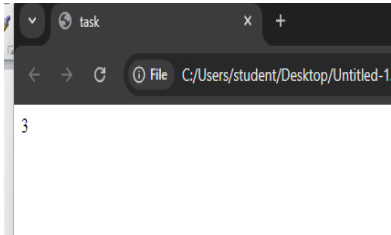
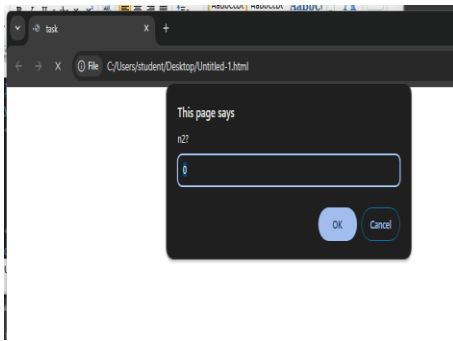
Task 52: Write an arrow function named add that takes two parameters and returns their sum. Validate your function with several pairs of numbers.

Code:

```
<html><head><title>task</title></head>
<body>
  <script>
    let add=(n1,n2)=>{return n1+n2};
    this.n1+=prompt("n1?",0);
    this.n2+=prompt("n2?",0);
    document.writeln(add(n1,n2));
  </script>
</body>
```

Output:



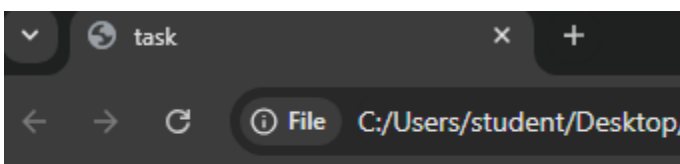
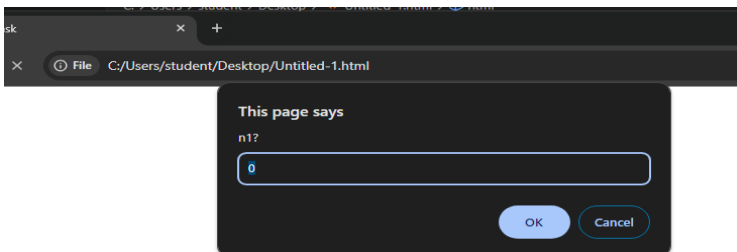


Task 53: Declare an arrow function named `isEven` that checks if a number is even. If the number is even, it should return `true`; otherwise, `false`. Remember that if the arrow function body has a single statement, you can omit the curly braces.

Code:

```
<html><head><title>task</title></head>
<body>
  <script>
    let iseven=(n1)=>n1%2==0;
    this.n1+=prompt("n1?",0);
    document.writeln(iseven(n1));
  </script>
</body>
```

Output:



false

Task 54: Implement an arrow function named `maxValue` that takes two numbers as parameters and returns the larger number. Here, you'll need to use curly braces for the function body and the return statement

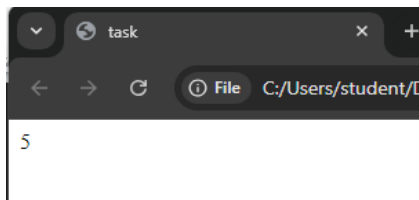
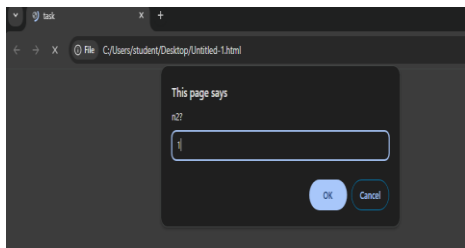
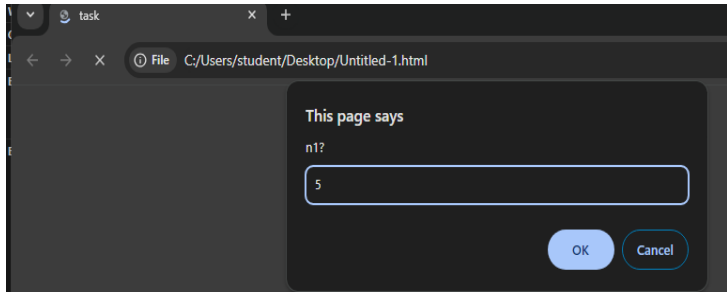
Code:

```

<html><head><title>task</title></head>
<body>
  <script>
    let maxValue=(n1,n2)=>{if(n1>n2)return n1;
      else return n2;};
    this.n1+=prompt("n1?",0);
    this.n2+=prompt("n2?",0);
    document.writeln(maxValue(n1,n2));
  </script>
</body>

```

Output:



Task 55: Examine the behavior of the `this` keyword inside an arrow function vs a traditional function. Create an object named `myObject` with a property value set to 10 and two methods: `multiplyTraditional` using a traditional function and `multiplyArrow` using an arrow function. Both methods should attempt to multiply the value property by a number passed as a parameter. Check the value of `this` inside both methods

Code:

```
<html><head><title>task</title></head>
```

```

<body>
  <script>
    let myObject = {
      value: 10,
      multiplyTraditional: function(factor) {
        console.log(this);
        return this.value * factor;
      },
      multiplyArrow: (factor) => {
        console.log(this);
        return this.value * factor;
      }
    };

```

```
    }  
  };  
  console.log(myObject.multiplyTraditional(5));  
  console.log(myObject.multiplyArrow(5));  
  </script>  
</body>
```

Output:

