CLASSES VS FACTORY FUNCTIONS IN JAVASCRIPT

@_Shreya_Trivedi

WHAT ARE CLASSES?

Classes in JavaScript provide a formal and standardized way to create objects using the class syntax. They support inheritance, encapsulation, and make it easier to define and manage object-oriented structures.

```javascript
class Person {
  constructor(name) {
    this.name = name;
  }

  greet() {
    console.log(`Hello, my name is ${this.name}`);
  }
}

const person1 = new Person('Alice');
person1.greet();
```

FACTORY FUNCTIONS

Factory functions are regular functions that create and return objects. They offer more flexibility and simplicity compared to classes, as they do not use the class keyword and allow for easier customization and composition of objects.

```javascript
function createPerson(name) {
  return {
    name,
    greet() {
      console.log(`Hello, my name is ${this.name}`);
    }
  };
}

const person2 = createPerson('Bob');
person2.greet();
```

CHOOSING **BETWEEN** CLASSES AND FACTORY FUNCTIONS

Choosing between classes and factory functions depends on your specific needs. Use classes when you need a clear, structured approach with inheritance and encapsulation. Opt for factory functions for flexibility, simplicity

When you want to leverage closures or avoid the complexities of the class syntax. Both have their advantages, so consider the context and requirements of your project.

@_Shreya_Trivedi