



Universidad Autónoma del Estado de México
Centro Universitario UAEM Atlacomulco



Licenciatura en Ingeniería en Computación

Periodo Educativo 2024^a

Actividad:

A2_ Cuadro sinóptico

Materia:

Paradigmas de la programación

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Atlacomulco, Estado de México, a 15 de agosto, 2024

Polymorphism

Definition

- Defines a fundamental concept in object oriented programming.
- It refers to the ability of different objects to respond differently to the same message or method.

Types

Overload Polymorphism:

Defines multiple methods with the same name but with different types or amounts of parameters within the same class.

```
class Operaciones {  
    int suma(int a, int b) {  
        return a + b;  
    }  
  
    double suma(double a, double b) {  
        return a + b;  
    }  
}
```

Parametric Polymorphism:

Defines generic functions or classes that can operate with any type of data in the same class.

```
class Caja<T> {  
    private T objeto;  
  
    public void agregar(T objeto) {  
        this.objeto = objeto;  
    }  
  
    public T obtener() {  
        return objeto;  
    }  
}
```

Coercive polymorphism:

It refers to the ability of a programming language to automatically convert one type of data into another in appropriate situations.

```
def suma(a, b):  
    return a + b  
  
resultado = suma(5, 3.0)
```

Polymorphism by Nullification:

It is the ability of a subclass to provide a specific implementation of a method that is already defined in its superclass.

```
class Vehiculo {  
    void arrancar() {  
        System.out.println("El vehículo arranca");  
    }  
}  
  
class Coche extends Vehiculo {  
    @Override  
    void arrancar() {  
        System.out.println("El coche arranca");  
    }  
}
```

Referencias

(2003). Technology organizations expect new export requirements. Congressional Digest.

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