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BSAI-2A-048 Lab02

**1. Class vs. Object**

**A. Class:**

A class is like a blueprint or plan. It defines how objects should look and behave, but it doesn't hold actual data.

**B. Object:**

An object is a specific instance created from a class. It holds actual data and can use the methods (functions) defined by its class.

**Example:**

Think of a class as the design of a house. The design tells you where everything will go, but it's not a real house.

The object is the actual house built from that design.

**2. Constructor Method (\_\_init\_\_) vs. \_\_str\_\_() Function**

**A. \_\_init\_\_ (constructor):**

This method runs automatically when you create an object. It sets up the initial state (like assigning values to variables) of the object.

**B. \_\_str\_\_():**

This function is called when you print the object or convert it to a string. It provides a readable and understandable description of the object.

**Example:**

**A:** \_\_init\_\_ is like moving into a house and setting up the furniture.

**B:** \_\_str\_\_ is like describing the house to someone when they ask what it looks like.