

What is a variable in Python?

- **Named Container:** Think of a variable as a labeled box that can store a value.
- **Storing Data:** Variables hold different types of information, like numbers, text, or more complex data structures.
- **Changing Values:** The value stored in a variable can be changed throughout your program.

Key Points for Exam Notes

- **How to Create a Variable:**

```
my_age = 12          # Stores the number 12
name = "Khushi"      # Stores the text "Khushi"
```

- **Rules for Naming:**
 - Must start with a letter or underscore.
 - Can contain letters, numbers, and underscores.
 - Case-sensitive (age and Age are different).
- **Data Types:** Variables automatically determine their data type based on the value assigned:
 - Numbers (int, float)
 - Text (string)
 - True/False (boolean)
 - Lists, dictionaries, etc.

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