

## **1. What are the rules in declaring the variables in python.**

**Ans:** Rules for Declaring Variables:

### **1. Naming Conventions:**

- Variable names must start with a letter (a-z, A-Z) or an underscore (\_).
- The rest of the variable name can include letters, numbers (0-9), and underscores.

### **2. Keywords:**

- You cannot use Python's reserved keywords (like if, for, while, class, etc.) as variable names.

### **3. No Special Characters:**

- Variable names cannot contain spaces or special characters (like @, \$, %, etc.).

### **4. Length:**

- Variable names can be of any length, but it's good practice to keep them reasonably short and descriptive.

### **5. Avoid Starting with Numbers:**

- Variable names cannot start with a digit (e.g., 1st\_var is invalid).

## **2. Explain type casting in python.**

**Ans:** Type casting in Python refers to the conversion of one data type into another. This is often necessary when you want to perform operations that require specific data types or when you need to ensure data is in the correct format. Python supports several built-in functions for type casting.