**SLICING**

**Slicing:**

**Slice means:** It is a part of something

**Slicing means:** It is a process of cutting a slice

The process of string slice is a part of a string and the process of grabbing a part of a string is known as string slicing.

**Syntax:**

**[start : stop : step]**

**Start:** It is a first index of the substring you want to grab and it is starting index of the slicing.

**End (or) stop:** It is ending index or last index of the substring up to which you want to grab in the slicing.

**Step:** The size of the jump you want to take while grabbing the subsection and the step size or interval between indices from the string slicing.

**Default values:**

1. Start: 0
2. End or stop: length of string
3. Step value: 1

**Example:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ‘s’ | ‘r’ | ‘a’ | ‘v’ | ‘y’ | ‘a’ |
| 0 | 1 | 2 | 3 | 4 | 5 |

s="sravya"  
s1=s[:3]  
print(s1)  
  
Output: sra

s="12346"  
print(s[:])

Output: 12346

**Type Casting:**

Typecasting, also known as type conversion, is the process of converting a value from one data type to another datatype.

**It has two types:**

**1. Implicit type:** Reference type to value type.

**Ex: a=10;**

**B=a;**

**2.Explicity type:** value type to reference type.

**Ex: a=10**

**B=10**