

## range() Function with Loops

### What is range()?

- range() is a built-in function in Python.
- It generates a sequence of numbers.
- Commonly used with **for loops** to repeat code a specific number of
- times.

### Forms of range():

#### 1. range(end)

- Starts from 0 and goes up to end

```
for i in range(5):  
    print(i)
```

#### 2. range(start, end)

- Starts from start and goes up to end

```
for i in range(1, 6):  
    print(i)
```

#### 3. range(start, end, step)

- step means how much to increase each time.

```
for i in range(2, 11, 2):  
    print(i)
```

### Key Points to Remember:

- Start is **inclusive**, End is **exclusive**.
  - ◆ Example: range(1, 5) → 1, 2, 3, 4 (not 5).
- Step can be positive or negative.
- Very useful in **loops, sequences, and iterations**.

### Practice Questions:

Write a program using for loop and range() to print all **even numbers from 1 to 20**.

Write a program using for loop and range() to print **reverse counting from 10 to 1**.