

PROBLEM SOLVING PROCESS

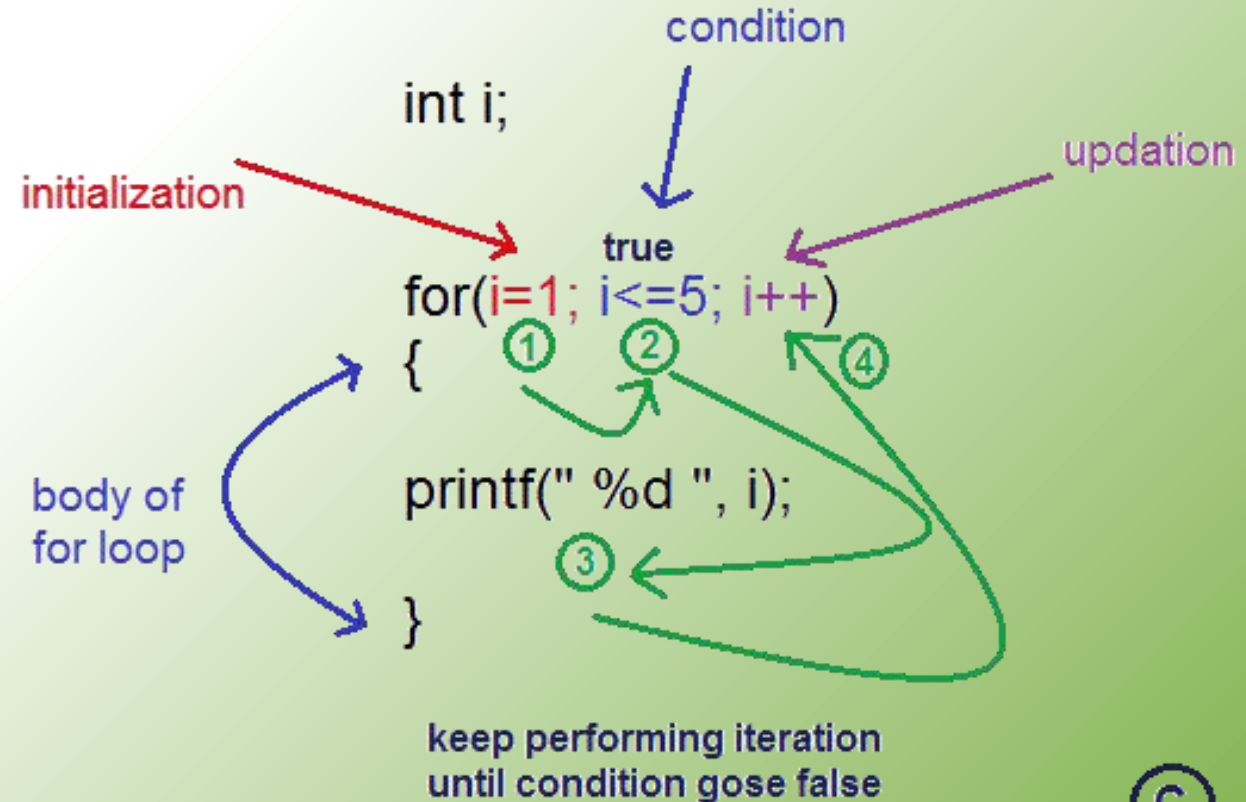
Class X
lab 5





for loop

a for-loop is a control flow statement for specifying iteration





Syntax of for Loop

```
for val in sequence:  
    Body of for
```



Flowchart of for Loop

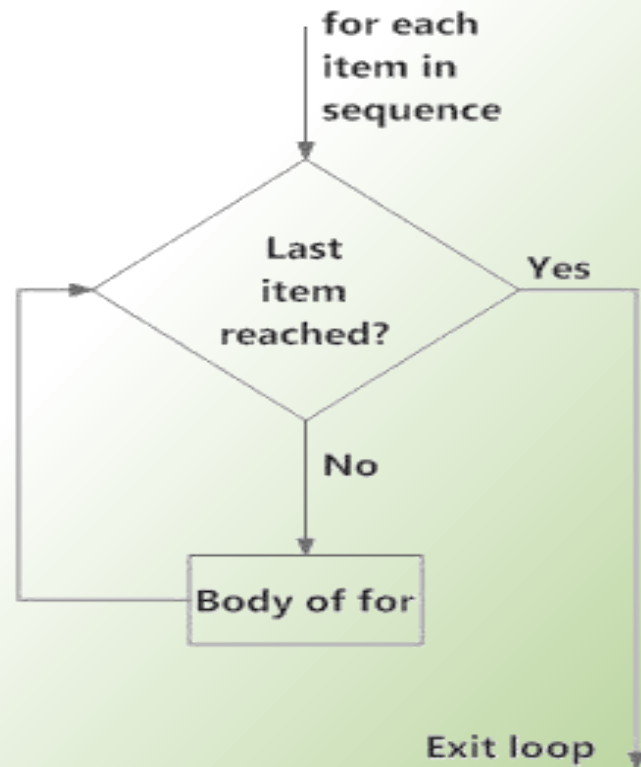


Fig: operation of for loop



Example: for Loop

```
# Program to find the sum of all numbers stored in a list
```

```
# List of numbers  
numbers = [6, 5, 3, 8, 4, 2, 5, 4, 11]
```

```
# variable to store the sum  
sum = 0
```

```
# iterate over the list  
for val in numbers:  
    sum = sum+val
```

```
# Output: The sum is 48  
print("The sum is", sum)
```



The range() function

```
# Output: range(0, 10)  
print(range(10))
```

We can generate a sequence of numbers using range() function. range(10) will generate numbers from 0 to 9 (10 numbers).



**Thank
you!**

