

# Full stack web development using python

## for loop



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# Agenda

- ① for loop
- ② Practice program
- ③ for vs while
- ④ break in for
- ⑤ for else

## for loop

for loop only works on iterables.

for variable in Iterable:  
    code  
    code

### Example

for x in "MySirG":  
    print(x)

### Output

M  
y  
S  
i  
r  
G

Write a program to count 'a' in a given string, using for loop.

```
x = input("Enter a String")  
count=0
```

```
for e in x:  
    if e=='a':  
        count +=1  
print("Count =", count)
```

x = "abacad"

e ↑

Count = 3

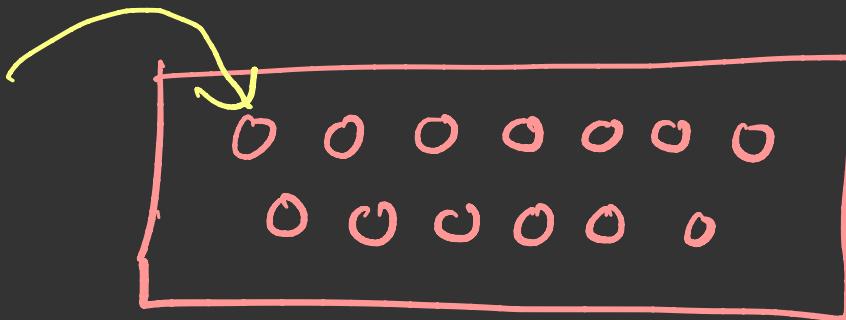
## while vs for

while loop iterates a block of code till the specified condition is true.

for loop iterates a block of code number of times same as number of elements in the iterable.

It iterates for elements of iterable from first element to the last element

## Iterable Objec



- group of values
- Ability to access elements of the object (from first element to the last element) is applicable on certain types

## break in for

break keyword can be used only in  
the body of loop (while or for)

break transfers the control outside  
the loop body and loop terminates

for else

for variable in iterable:

    code

    code

    if condition:

        break

    code

else:

    code

    code

Print all the character of a string, but  
Stop printing if 'x' appeared in the sequence.  
If all the character successfully printed  
the print message "All the characters are  
processed"

x = input("Enter a string")

```
for i in x:  
    if i == 'x':  
        break  
    print(i, end="")  
else:  
    print("All the characters are processed")
```

```
s = input("Enter a string")
```

```
for x in S:
```

```
    if x == "x":
```

```
        break
```

```
    print(x, end="")
```

```
else
```

```
    print("All the characters are processed")
```