# Strings

String is data type that stores a sequence of characters.

#### Basic Operations

concatenation

length of str

len(str)

## Indexing

```
str = "Apna_College"
```

str[0] is 'A', str[1] is 'p' ...

str[0] = 'B' #not allowed

# Slicing

Accessing parts of a string

```
str[ starting_idx : ending_idx ] #ending idx is not included
str = "ApnaCollege"
str[ 1 : 4 ] is "pna"
str[ : 4 ] is same as str[ 0 : 4]
str[ 1 : ] is same as str[ 1 : len(str) ]
```

# Slicing

Negative Index

str = "Apple"

str[ -3 : -1 ] is "pl"

#### **String Functions**

```
str = "I am a coder."
str.endsWith("er.") #returns true if string ends with substr
str.capitalize() #capitalizes 1st char
str.replace(old, new) #replaces all occurrences of old with new
str.find(word) #returns 1st index of 1st occurrence
str.count("am") #counts the occurrence of substr in string
```

#### Let's Practice

WAP to input user's first name & print its length.

WAP to find the occurrence of '3' in a String.

### **Conditional Statements**

```
if-elif-else (SYNTAX)
```

```
if(condition):
    Statement1
elif(condition):
    Statement2
else:
```

StatementN

#### **Conditional Statements**

Grade students based on marks

#### Let's Practice

WAP to check if a number entered by the user is odd or even.

WAP to find the greatest of 3 numbers entered by the user.

WAP to check if a number is a multiple of 7 or not.