String Handling

```
a = 5                  # int
b = 17.9               # float
c = "Gajera"           # String
```

⇒ Ex:- 1

```
d = "Gajera school"
print(d)          # Gajera school
print(d[2])       # j
print(d[-4])      # h
print(d[2:5])     # jer
print(d[0:6])     # Gajera
print(d[7:13])    # School
print(d[7:])      # School
print(d[:6])      # Gajera
print(d[:])       # Gajera School
```

G	a	j	e	r	a		S	c	h	o	o
0	1	2	3	4	5	6	7	8	9	10	11

Extra:-

```
print(d[:8])
    # Gajera S
print(d[:7])
    # Gajera
```

```
print (d[ : : 2])   # Gjr col
print (d[7 : : 3])  # so
```

* Ex - 2

```
x = "Gajera International School"
print (x[9])  # t
print (x[7:19:2])  # Itan
print (x[ : :4])  # Gnno
print (x[-6])  # s
print (x[-6 : ])  # School
print (len(x[ :7]))  # 7
```

* Example 3 : WAP to print each character for given string using for loop.

```
d = 'gajera school'
for i in d:
    print (i)
```

Output :-

```
g
a
j
e
r
a

s
c
h
o
o
l
```

* Example 4:

```
a = "Vajeera School"
count = 0
for i in a:
    if i == 'a':
        count = count + 1
print(count)
```

Output

2

* Example 5:

```
a = "Vajeera School"
d = ["a", 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']
count = 0
for i in a:
    if i in d:
        count = count + 1
print(count)
```

Output:

5

* String functions:

1. len():
   Syntax: len(variablename)

2. capitalize():
   Syntax: variablename.capitalize()

3. lower():
   Syntax: variablename.lower()

4). islower():
syntax: variablename.islower()

5). upper():
syntax: variablename.upper()

6). isupper():
syntax: variablename.isupper()

* Example 6:

```
d = " Gajera School "
x = " gajera "
y = " GAJERA "

print (len(d))          # 13
print (len(x))          # 6
print (len(y))          # 6

print (d.capitalize())  # Gajera School
print (x.capitalize())  # Gajera
print (y.capitalize())  # GAJERA Gajera

print (d.lower())       # gajera school
print (x.lower())       # gajera
print (y.lower())       # gajera

print (d.islower())     # False
print (x.islower())     # True
print (y.islower())     # False
```

```
print(d.upper())        # GAJERA SCHOOL
print(x.upper())        # GAJERA
print(y.isupper())      # GAJERA

print(d.isupper())      # False
print(x.isupper())      # False
print(y.isupper())      # True
```

* Example 7 :-

```
a = "Gajera School"
x = a.lower()
d = ['o', 'e', 'i', 'o', 'u']
count = 0
for i in x:
    if i in d:
        count = count + 1
print(count)
```

Output :-

5

```
else:
    print("enter valid input")
```

Example 8. WAP to cheque that how many vowels present in the entered string use lower() function.

```
d = input("Enter string = ")        # Education.
x = d.lower()
count = 0
for i in x:
    if i=='a' or i=='e' or i=='i' or i=='o' or i=='u':
        count = count + 1
print(count)                        # 5
```