In [ ]:
```
"""
String : --->
1.Creating
2.Accessing
3.Adding char
4.Editing String
5.Deleting String

-------------------------------------------------------------------
6.Operators on String
-------------------------------------------------------------------
7.String Function

Common Function : min/max/len/sorted

capitalize/title/upper/lower/swapcase/count/find/index

endswith & startswidth

Format : 4option

Split
"""
```

Creating

In [1]:
```
s1 = 'Trupti'
s2 = "Mane"
s3 = """EduTECH"""
print(s1,s2,s3, sep = "/")
```

```
Trupti/Mane/EduTECH
```

Accesing

In [2]:
```python
"""
name = "Vishal"

V   i  s  h  a  l
0   1  2  3  4  5   Positive Index
-6 -5 -4 -3 -2 -1   Negative Index

"""

name = "Vishal"

#Positive Index
print("At index 3 value is :", name[3])
print("At index 5 value is :", name[5])

#Negative Index
print("At index -1 value is :", name[-1])
print("At index -4 value is :", name[-4])
```

```
At index 3 value is : h
At index 5 value is : l
At index -1 value is : l
At index -4 value is : s
```

In [3]:
```python
#Slicing

#Positive Slicing
msg = "EduTECH Warje"

print(msg[3:7])

info = "Welcome to EduTECH We are Starting with Data Analysis"
print(info[11:18])

#negative Slicing
print("This is using Negative Slicing", msg[-10:-6])
print("Reverse Sting:", msg[::-1])
```

```
TECH
EduTECH
This is using Negative Slicing TECH
Reverse Sting: ejraW HCETudE
```

In [4]:
```python
#Write a program to take input from user and Print reverse value of String

name = input('Enter Your Name :')
print("Reverse Name :", name[::-1])
```

```
Enter Your Name :Trupti Shivaji Mane
Reverse Name : enaM ijavihS itpurT
```

Adding Char/Editing String/Deleting String

In [7]:
```python
#String is Immutable Datatype

s1 = "EduTECH"

#s1[0] = "V"  #'str' object does not support item assignment
del(s1[1])     #'str' object doesn't support item deletion
print(s1)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[7], line 6
      3 s1 = "EduTECH"
      5 #s1[0] = "V"  #'str' object does not support item assignment
----> 6 del(s1[1])     #'str' object doesn't support item deletion
      7 print(s1)

TypeError: 'str' object doesn't support item deletion
```

In [8]:
```python
s1 = "EduTECH"
print("Without Change:", s1)

s1="Warje"
print("With Change:", s1)

s2= "Trupti M"
del(s2)

print(s2)
```

```
Without Change: EduTECH
With Change: Warje
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[8], line 10
      7 s2= "Trupti M"
      8 del(s2)
---> 10 print(s2)

NameError: name 's2' is not defined
```

Operators on String

In [12]:
```python
#Arithmatic : +,*

#print("EduTech" - " Warje") #unsupported operand type(s) for -:'str' and 'str

print("EduTech" + " Warje")

print(" ABC " * 4)
```

```
EduTech Warje
 ABC   ABC   ABC   ABC
```

In [15]:
```python
#Relational : <,>,==,<=,>=

city1 = "pune"
city2 = "mumbai"

print(city1 > city2) #True

ID ="vishal@96"
user = input("Enter Your ID :")
print("Is ID Correct or not : ", ID == user)
```

```
True
Enter Your ID :abcd
Is ID Correct or not :  False
```

In [16]:
```python
#Membership Operators : in, not in

info = "Welcome to EduTECH Warje"

print("Edutech" in info)
print("EduTECH" in info)
```

```
False
True
```

String Functions

In [17]:
```python
#Common Functions : min, max, len, sorted

s1= "EduTECH"
print("Min value of s1", min(s1))
print("Max value of s1",max(s1))

s2= "123456"
print("Min value of s2", min(s2))
print("Max value of s2",max(s2))
```

```
Min value of s1 C
Max value of s1 u
Min value of s2 1
Max value of s2 6
```

In [19]:
```python
pwd = input("ENter the password")
print("User Password :", pwd)
print("User Password Length:", len(pwd))
```

```
ENter the passwordabvcfgg
User Password : abvcfgg
User Password Length: 7
```

In [21]:
```python
#Sorted :--> List DataType
s4 = "EduTech"
print(sorted(s4))
```

```
['E', 'T', 'c', 'd', 'e', 'h', 'u']
```

In [ ]: