

# 1.Creating String

```
In [1]: t1 = "Maths"
t2 = "English"
t3 = "Hindi"
t4 = "Marathi"

print(t1,t2,t3,t4,sep = "**")

Maths**English**Hindi**Marathi
```

# 2.Accessing String

```
In [8]: """
s = "Mango"

M   o   n   g   o
0   1   2   3   4
-5  -4  -3  -2  -1

s2 = ["Mango", "Banana", "Papaya"]
      1         2         3
      -3        -2        -1

"""

s = "Mango"
s2 = ["Mango", "Banana", "Papaya"]

#Positive Index
#print(s)
#print(s2)
print("At index 2 value of s is:",s[2])
print("At index 4 value of s is:",s[4])

print("At index 1 value of s2 is:",s2[1])
print("-----")
#Negative Index
print("At index -1 value of s is:",s[-1])
print("At index -1 value of s2 is:",s2[-1])

At index 2 value of s is: n
At index 4 value of s is: o
At index 1 value of s2 is: Banana
-----
At index -1 value of s is: o
At index -1 value of s2 is: Papaya
```

```
In [18]: #Slicing

#Positive Slicing

name = "Trupti Mane"

print(name[::-1])
print(name[4:9])

msg = "Save Tree Save Life"
print(msg[5:14])

#Negative Slicing
print("This is negative Slicing:", name[-5:-2])
```

```
enaM itpurT
ti Ma
Tree Save
This is negative Slicing:  Ma
```

```
In [20]: #Write a program to reverse a string

str1 = input("Enter the string")

print("Reverse srting is:", str1[::-1])
```

```
Enter the stringzeal Education
Reverse srting is: noitacudE laez
```

### 3.Adding char/Editing String /Deleting String

```
In [22]: s5 = "Zeal Education"

print(s5)

s5 = "EduTech"

print(s5)

s6 = "Trupti"
del(s6)
print(s6)
```

Zeal Education  
EduTech

```
-----
NameError                                Traceback (most recent call last)
Cell In[22], line 11
      9 s6 = "Trupti"
     10 del(s6)
--> 11 print(s6)

NameError: name 's6' is not defined
```

## 6.Operators On String

```
In [25]: #Arithamtic : +, -

print("Zeal" + " Education")
print("Zeal " * 8)
```

Zeal Education  
Zeal Zeal Zeal Zeal Zeal Zeal Zeal Zeal

```
In [31]: #Relational :<, > ,==, <= ,>=

sub1 = "Maths"
sub2 = "Marathi"

print(sub1 > sub2) # True
print(sub1 < sub2) # False
print(sub1 >= sub2)# True
print(sub1 == sub2)# False
```

True  
False  
True  
False

```
In [34]: #Membership Operators: in , not in

msg = "Digital marketing is Growing day by day"
print("Digital" in msg) # True
print("day" in msg) # True
print("IS" in msg) #False
```

True  
True  
False

## 7.String Functions

```
In [35]: str1 = "Zeal"

print("Min value of str1:",min(str1))
print("max value of str1:",max(str1))
```

Min value of str1: Z  
max value of str1: l

```
In [36]: str2 = 567889

print("Min value of str2:",min(str2))
print("max value of str2:",max(str2))
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[36], line 3
      1 str2 = 567889
----> 3 print("Min value of str2:",min(str2))
      4 print("max value of str2:",max(str2))

TypeError: 'int' object is not iterable
```

```
In [37]: str2 = "567889"

print("Min value of str2:",min(str2))
print("max value of str2:",max(str2))
```

Min value of str2: 5  
max value of str2: 9

In [38]: *#Length function*

```
color = input("Enter the color name:")  
print("Length:", len(color))
```

Enter the color name:white  
Length: 5

In [40]: *#Sorted ---> List datatype*

```
str3 = "Education"  
str4 = ["Mango", "Apple", "grapes"]
```

```
print(sorted(str3))  
print(sorted(str4))
```

['E', 'a', 'c', 'd', 'i', 'n', 'o', 't', 'u']  
['Apple', 'Mango', 'grapes']

In [ ]: