

1. Accept a file name from user and print extension of that.

Hint: split()

```
a=input("Enter a String : ")
b=a.split(".")
print(b[1])
```

2. Create a single string separated with space from two strings by swapping the character at position

Eg: Str1 = 'Python'  
Str2 = 'Programming'  
Output = 'Prthon Pyogramming'

```
str1=input("Enter a String : ")
str2=input("Enter another String : ")
print (str1)
print (str2)
output=str1[0]+str2[1]+str1[1:len(str1)]+"
"+str2[0]+str1[1]+str2[1:len(str2)]
# output=str1.replace(str1[1],str2[1],1) +" "+
str2.replace(str2[1],str1[1],1)
print(output)
```

3. Display a given string by exchanging first and last characters.

Eg: Input – Python  
Output – nythoP

```
str1=input("Enter a String : ")
n=len(str1)
#output=str1[n-1]+str1[1:n-1]+str1[0]
output=str1[-1:]+str1[1:-1]+str1[0]
print(output)
```

4. Write a program that removes the n<sup>th</sup> index character from a string

Eg: Input – Python

Index position – 3

Output – Pyhon

```
str1=input("Enter a String : ")
n=int(input("Enter Index : "))
output=str1[0:n-1]+str1[n:]
print(output)
```

5. Accept a string a display in uppercase and lowercase.

```
a=input("Enter a String : ");
print ("Uppercase : "+a.upper());
print ("LowerCase : "+a.lower());
```

6. Explain String slicing with suitable examples

## Assignment 2.

### Slicing

to obtain a substring from given string by slicing it. It can be done in 2 ways.

- slice() Constructor.
- Extending Indexing

### slice() Constructor

Create a slice object represent set of indices specified by range (start, stop, step).

### Syntax

slice(stop)

start → starting index

slice(start, stop, step)

stop → Ending index.

step → { optional }

→ increment between each index for slicing

### Index Factor

0	1	2	3	4	5
P	y	T	H	O	N
-6	-5	-4	-3	-2	-1

← Negative indexing.

eg) str = "python".

s1 = slice(3)

s2 = slice(1, 5, 2)

s3 = slice(-1, -12, -2)

Print(str[s1]);

Print(str[s2]);

Print(str[s3]);

o/p-  
pyt  
yh  
nhy

Extending      understanding.

easy & convenient way to slice.

Syntax

string[start, end: step]

= start, end, step are  
same as slice()  
constructor.

eg) string = "python"

Print(string[:3]);

Print(string[1:5:2])

Print(string[-1:-12:-2])

Print(string[::-1]) # reverse.

output -

pyt

gb

nby.

notyp {# revers}