Day 4

Date 10 June 2024

Daily Report

Today's traning based on immutable bult in data type- string and operators in Python.

Topic covered in todays lesson

String in python

strings are built in data type in python.

syntax:-

```
str_name = " element "
str_name = ' element '
str_name = '''element'''
```

Given above any method can be used to write a string.

String Method

There are number of String method in python. but here are some important one.

• upper() - to convert string into uppercase

```
# str.upper()
```

• lower() - to convert string into lowercase

```
# str.lower()
```

• capitalize() - to convert first letter of string into uppercase letter

```
# str.capitalize(0)
```

• title() - to convert all first letters of string into uppercase

```
# str.title()
```

swapcase() - to swap lowercase and uppercase letters

```
# str.swapcase()
```

• endswith() - to tell whether its end with specific string or not.

```
# endswith()
```

center() - to give equal space front front and end of the string

```
# str.center()
```

expandtabs() - to give tab spaces

```
# str.expandtabs()
```

index() - used to find element at given index

```
# str.index(index)
```

• find() - used to find index of specific element

```
# str.find(element)
```

operators in python

- 1. Arithmatics already done
- 2. Comparison Operators already done first day
- 3. Logical Operators
 - o and Return True if both operators are True

```
# a>1 and a<9
```

o OR - Return True if one of the operator is True

```
# a>1 or a<9
```

• NOT - Return True if given operator is False

not a>1

4. Bitwise operator-

• Bitwise and operator (&) - Return True if both operand are 1.

• Bitwise or operator (I) - Return True if one of the operand is 1.

• Bitwise not operator (^) - Return True if operand is one of the operand is 0.

```
# a^b
```

5. Assignment Operator -

 Assignment Operator (=) - Assign the value of the right side of the expression to the left side operand

```
\# c = a + b
```

 Addition Assignment Operator (+=) - Add right side operand with left side operand and then assign the result to left operand

 Subtraction Assignment Operator (-=) - Subtract right side operand from left side operand and then assign the result to left operand

 Multiplication Assignment Operator (*=) - Multiply right operand with left operand and then assign the result to the left operand

 Division Assignment Operator (/=) - Divide left operand with right operand and then assign the result to the left operand

 Modulus Assignment Operator (%=) - Divides the left operand with the right operand and then assign the remainder to the left operand

• Floor Division Assignment Operator (//=) - Divide left operand with right operand and then assign the value(floor) to left operand

 Exponentiation Assignment Operator (**=) - Calculate exponent(raise power) value using operands and then assign the result to left operand

 Bitwise AND Assignment Operator (&=) - Performs Bitwise AND on operands and assign the result to left operand

• Bitwise OR Assignment Operator (|=) - Performs Bitwise OR on operands and assign the value to left operand

 Bitwise XOR Assignment Operator (^=) - Performs Bitwise XOR on operands and assign the value to left operand

Bitwise Right Shift Assignment Operator (>>=) - Performs Bitwise right shift on operands
 and assign the result to left operand

 Bitwise Left Shift Assignment Operator (<<=) - Performs Bitwise left shift on operands and assign the result to left operand