Mary String Slicing. 7-08-22 Python Slicing means obtaining a sub-string from the given string. Slicing done by-- For reverse slicing we give the negative numbers. string[0:5] v) capitalize() It converts the first character to upper case and other in lower case. name.capitalize() bame It converts whole string in lower case. viz casefold () name.casefold() vii> center() It returns a centered string It returns a specified value occurs in vui> count () a string. 6.9. Returns to an encoded version of string. ix) encode ()

```
x>endswith()
    Returns true if the string ends with
the specific value.
   e.g. name.endswith (".")
xi> expand tabs()
Sets the tab size of string.
     e.g. txt. expandtabs (2)
searches the string for a specified value and returns the position of where it was
XII>find()
  found.
     e.g. name.find ("Pratiksha") 1
x1117 format ()
```

It is used to format the string.

e.g. name="My name is &?"

name.format("Pratiksha"),

It gives output
My name is Pratiksha.

Bool function

It is used to return or convert value to Boolean value i.e. True or false, using the truth testing procedure.

Syntax - bool ([x])

Bool function Returns

ir True .

- Athere is any string

- there is any Number

11> Folse

- empty string is given
- 0 in the parantesis
 - emplank is in the paranthesis.

Operators in Python

- -Operators are entity which is used to manipulate values and variable.
 - -It used to perform operations on variables and values.

| Týr | pes of operator | S |
|------------------|-----------------|-----------------|
| Arithmetic Compo | arison Tde | ntity Bitwise |
| Assignment | Logical | Membership |

1) Arithmetic Operators.

| Ī | Operator | Name | Example |
|---|------------|----------------|---------|
| | + | Addition | xty |
| | - | Substraction | x-y |
| | + | Multiplication | 2*4 |
| | ⊕ / | Division | x/y |
| | °/o | Modulus | 20/04 |
| | ** | Exponentiation | x** y |
| | // | Floor division | 21/14 |

2> Assignment operator

| = used to assign value to variable | x=10 x=y |
|------------------------------------|-------------|
|------------------------------------|-------------|

```
* short-hand operators
                               equivalant
                 Example
    operator
                               2=2+3
                 x + = 3
     +=
     1 =
                 2-=3
                                2=2-3
                 2*=3
     #=
                                x= x* 3
     1=
                 2/= 48
                                x=x/3
                 x**=3
                                x=x**3
     **=
                                 2=2&3
                 x&=3
     &=
                                2=2 3
                 x = 3
     1=
                                 X= x 13
                 x = 3
     1=
                                 火= x>>3
                 2 = 3
     >>=
                                  x= x<<3
                 \alpha << =3
     イノニ
37 Comparisan operators.
                                 Example
   Operator
                Name
                                 x==4
    = =
               Equal
                                 又!=Y
    !=
                Not equal
                                 274
               Greater than
                                 xxy
               Less than
               Greater than
     >=
                                 x>=4
                 equal to
              Less than equal
                                x<=4
     <=
                   to
```

47 Logical operators.

| Operator | 000011 | Example |
|-------------|---|------------------------------|
| Logical AND | Returns TRUE if both Statements are true | α <5 and α <10 |
| Logical OR | Returns TRUE if one of the statement is true | x<5 or 2<4 |
| Logical NOT | Reverse the result, returns false if the result is true | not (xxs and xx10) |

5) Identity operators.

| Operator | Description | Example |
|----------|--|------------|
| is | Returns true if both variable are same object | x is y |
| is not | Returns true is both variables are not same object | z is not y |
| | | |

a Membership operator.

| | , | |
|----------|--|----------|
| Operator | Description | Example |
| în | Returns True if a seq- -uence with specified value is present in object | ziny |
| not in | Returns True if a sequent with specified value is not present in the object | 2 notiny |

77 Bitwise Operator.

| Operator | Bescription | Example |
|---------------|------------------------|-------------|
| 2 | Bitwise AND | 2&4 |
| 1 | Bitwise or | XIY |
| \sim | Bitwise NOT | ~X |
| * | Bitwise XOR | 27 |
| > > | Bitwise right shift | % >7 |
| < < | Bitwise teft shift | x<< |
| | | , |

Python Lists List are collection of different or same values in a single variable. 1) not colours = [" Red", "Pint", " Black"]. print (colurs) @ lists=["1," Raju", " Jadhau", "Pune", 123] print (uists) oList length. function- len() e.g. print (len (lists) · List type function-type () e.g. type(Lists) output - < class list> * List () constructor.

lists = lost (("apple", "banana", "cherry"))

double round bracket

print (lists).

e.9.