ui22cs03-lab06

September 20, 2023

String

Input a string

[4]:
```
s=input("Enter the String : ")
```

```
Enter the String : ADITYA KUAMR
```

Length of string

[41]:
```
print(len(s))
```

```
12
```

String licing

[8]:
```
print(s[0:len(s)])
```

```
ADITYA KUAMR
```

Capitalize

[9]:
```
print(s.capitalize())
```

```
Aditya kuamr
```

UPPER CASE

[39]:
```
print(s.upper())
```

```
ADITYA KUAMR
```

smaller case

[40]:
```
print(s.lower())
```

```
aditya kuamr
```

find method

[45]:
```
print(s.find(s[2]))
```

```
2
```

Checking the type of character

[10]:
```
if s[2].isalnum:
    print("The character is alphanuneric")
elif s[2].isalpha:
    print("The character is alphanbetic")
elif s[2].isdigit:
    print("The character is numeric")
elif s[2].islower:
    print("The character is lowercased")
elif s[2].isupper:
    print("The character is uppercased")
```

```
The character is alphanuneric
```

String stripping

[11]:
```
print(s.lstrip)
print(s.rstrip)
print(s.strip)
```

```
<built-in method lstrip of str object at 0x7b9f441d4c70>
<built-in method rstrip of str object at 0x7b9f441d4c70>
<built-in method strip of str object at 0x7b9f441d4c70>
```

List

Range

[16]:
```
r=list(range(0,150))
print(r)
```

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,
42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61,
62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,
82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100,
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116,
117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132,
133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148,
149]
```

List length

[17]:
```
print(len(r))
```

```
150
```

Adding new element

[19]:
```
r.append(199)
print(r)
```

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,
42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61,
62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,
82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100,
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116,
117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132,
133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148,
149, 99, 199]
```

Deletion

[13]:
```
#deletinig a certain index value
r.pop(1)
#deleteing a certain value
r.remove(20)
print(r)
```

```
[0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23,
24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43,
44, 45, 46, 47, 48, 49]
```

Sorting the list

[20]:
```
print(r.sort())
```

```
None
```

List slicing

[21]:
```
print(r[10:20])
```

```
[10, 11, 12, 13, 14, 15, 16, 17, 18, 19]
```

Changing list elements

[22]:
```
r[9]=77
print(r)
```

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 77, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41,
42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61,
62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,
82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 99, 100,
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116,
117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132,
133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148,
149, 199]
```

tuple

count method

[24]:
```
print(r.count(10))
```

```
1
```

[27]:
```
tuples = ("Head1","Head2","Head3")
print(tuples)
print(type(tuples))
```

```
('Head1', 'Head2', 'Head3')
<class 'tuple'>
```

Length of tuple

[29]:
```
print(len(r))
print(len(tuples))
```

```
152
3
```

Dictionary

[30]:
```
d={'A':"Aeroplane", 'B':"Ball", 'K':"Kite"}
```

get method

[31]:
```
print(d.get('banana'))
```

```
None
```

Print the items of dictionary

[32]:
```
print(d.items())
```

```
dict_items([('A', 'Aeroplane'), ('B', 'Ball'), ('K', 'Kite')])
```

Print the keys of dictionary

[33]:
```
print(d.keys())
```

```
dict_keys(['A', 'B', 'K'])
```

Print the values of dictionary

[34]:
```
print(d.values())
```

```
dict_values(['Aeroplane', 'Ball', 'Kite'])
```

Deleting value with a specific key

[37]:
```
print(d['A'])
```

```
Aeroplane
```

Adding a key-value pair

[38]:
```
d.update({'C':'Cat'})
print(d)
```

```
{'A': 'Aeroplane', 'B': 'Ball', 'K': 'Kite', 'grapes': 'purple', 'C': 'Cat'}
```