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In [ ]:
# list :A list is a data structure in Python that is a mutable, or changeable, ordered sequ
lst=["python",10,10.5,[1,2,3],"hey"]
lst
In [2]:
#list appending
lst.append("hello")
lst
Out[2]:
['python', '10', '10.5', [1, 2, 3], 'hey', 'hello']
In [8]:
# list indexing
lst.index("hey")
Out[8]:
4
In [9]:
lst
Out[9]:
['python', '10', '10.5', [1, 2, 3], 'hey', 'hello']
In [14]:
#list inserting
lst.insert(20,"ladkat")
lst
Out[14]:
['python', 10, 10.5, [1, 2, 3], 'hey', 'ladkat', 'ladkat']
In [16]:
# List removing
lst.remove(10)
lst
Out[16]:
['python', 10.5, [1, 2, 3], 'hey', 'ladkat', 'ladkat']
```

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In [17]:
#list reversing
lst.reverse()
lst
Out[17]:
['ladkat', 'ladkat', 'hey', [1, 2, 3], 10.5, 'python']
In [18]:
#Dictionaries : Dictionary in Python is an unordered collection of data values, used to stor
dit={"Name":"hritik", "age": "20", "Number": "123456789"}
dit
Out[18]:
{'Name': 'hritik', 'age': '20', 'Number': '123456789'}
In [20]:
#get
dit.get('Name')
'hritik'
Out[20]:
'hritik'
In [21]:
#update
dit.update({"Place":"Pune"})
dit
Out[21]:
{'Name': 'hritik', 'age': '20', 'Number': '123456789', 'Place': 'Pune'}
In [22]:
#items
dit.items()
Out[22]:
dict_items([('Name', 'hritik'), ('age', '20'), ('Number', '123456789'), ('Pl
ace', 'Pune')])
In [23]:
#pop
dit.pop("Name")
Out[23]:
'hritik'
```

```
In [25]:
#sets
st={"hritik", "Pune", 1, 2, 3, 3, 3, 4, 4, 5, 6, 6, 6, 7}
st
Out[25]:
{1, 2, 3, 4, 5, 6, 7, 'Pune', 'hritik'}
In [26]:
st1={"hello",1,3,4,4,4,8,9}
st
Out[26]:
{1, 2, 3, 4, 5, 6, 7, 'Pune', 'hritik'}
In [27]:
#intersection
st1.intersection(st)
\{1, 3, 4\}
Out[27]:
\{1, 3, 4\}
In [29]:
#difference
st1.difference(st)
Out[29]:
{8, 9, 'hello'}
In [31]:
#Issubset
st1.issubset(st)
Out[31]:
False
In [32]:
#Isdisjoint
st1.isdisjoint(st)
Out[32]:
False
```

```
In [34]:
#Update
st1.update(st)
st1
Out[34]:
{1, 2, 3, 4, 5, 6, 7, 8, 9, 'Pune', 'hello', 'hritik'}
In [36]:
#tuple :A tuple is a collection of objects which ordered and immutable.
#Tuples
tup=("hritik","pune",123456789)
tup
Out[36]:
('hritik', 'pune', 123456789)
In [37]:
#Count
tup.count("123456789")
Out[37]:
0
In [41]:
#Index
tup.index("pune")
Out[41]:
1
In [42]:
#strings : A string in Python is a sequence of characters. Strings are immutable
str1="Hi"
print(str1)
Ηi
In [43]:
str2="welcome"
print(str2)
welcome
In [50]:
str3= str1 + str2
print(str3)
```

Hiwelcome

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In [52]:
str5="india is my country"
print(str5)
india is my country
In [54]:
#capitalize
str="python"
msg=str.capitalize()
print(msg)
Python
In [55]:
#count
str="happy happy sad"
msg=str.count("happy")
print(msg)
2
In [71]:
#Len
str1="python"
print(len(str))
6
In [73]:
#max
str="python"
print(max(str))
У
In [75]:
#min
str="python"
print(min(str))
h
In [ ]:
```