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In [1]:
          @author: Bhanu Prakash
          set will not allow duplicates
          collection of unique elements
          index based operations set doesn't support
          insertion order wont be maintained
          0.00
          b=set()
          b={1,2,3,4,5,1} #list can be represented by square brackets
          print(type(b)) #type give the class of object
         <class 'set'>
 In [4]:
          b=set()
          b={1,2,3,4,5,1} #set will not allow duplicates
          print(b)
         {1, 2, 3, 4, 5}
In [60]:
          b=set()
          b=\{1,2,3,4,5,1\}
          print(b[0]) #index based operations set doesn't support
                                                   Traceback (most recent call last)
         TypeError
         <ipython-input-60-a523f3495f58> in <module>
               3 b=\{1,2,3,4,5,1\}
         ----> 5 print(b[0]) #index based operations set doesn't support
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TypeError: 'set' object is not subscriptable
In [85]:
          b=set()
          b=\{1,2,3,4,5,1\}
          b.add(6) #add
          print(b) #insertion order wont be maintained
         {1, 2, 3, 4, 5, 6}
In [63]:
          b=set()
          b=\{1,2,3,4,5,1\}
          b.remove(5)
          print(b) #remove
         {1, 2, 3, 4}
          b=set()
In [64]:
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.intersection(b)) #intersection
         {1, 2}
          b=set()
In [65]:
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.union(b)) #union
         {1, 2, 3, 4, 5, 6, 7, 8}
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b=set()
In [66]:
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          print(a.copy()) #copy
         {1, 2, 6, 7, 8}
In [67]:
          b=set()
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.difference(b)) #difference
         {8, 6, 7}
In [69]:
          b=set()
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          b.clear() #clear
          print(b)
         set()
In [71]:
          b=set()
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          a.pop() #pop
          print(a)
         {2, 6, 7, 8}
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In [72]:
          b=set()
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.symmetric_difference(b)) #symmetric_difference
         {3, 4, 5, 6, 7, 8}
In [75]:
          b=set()
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          print(a.difference_update(b)) #difference_update
         None
          b=set()
In [76]:
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          print(a.intersection_update(b)) #intersection_update
         None
          b=set()
In [77]:
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          b.discard(1)
          print(b) #discard
         {2, 3, 4, 5}
In [78]:
          b=set()
```

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b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.issubset(b)) #issubset
         False
          b=set()
In [79]:
          b=\{1,2,3,4,5,1\}
          a={6,7,8,1,2}
          print(b.issuperset(a)) #issuperset
         False
          b=set()
In [80]:
          b=\{1,2,3,4,5,1\}
          a=\{6,7,8,1,2\}
          print(a.isdisjoint(b)) #isdisjoint
         False
In [83]:
          b=set()
          b=frozenset([1,2,3,4,5,1])
          a=frozenset([6,7,8,1,2])
          a.add(9)
          print(a) #frozenset doesn't perform any changes
         AttributeError
                                                    Traceback (most recent call last)
         <ipython-input-83-d50b064b6cf2> in <module>
               5 a=frozenset([6,7,8,1,2])
```

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----> 7 a.add(9)
8 9 print(a) #frozenset doesn't perform any changes
AttributeError: 'frozenset' object has no attribute 'add'

In []:
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