Assignments 4

set

```
In [22]: s=set()
         type(s)
```

Out[22]: set

```
In [23]: s1={1,2,3,4,4,5,6,7,8}
         s1
```

Out[23]: {1, 2, 3, 4, 5, 6, 7, 8}

```
In [24]: s2={143,"hero",5.9,True,5+5j}
```

```
In [25]: type(s2)
```

Out[25]: set

adding to set

```
In [26]: s1.add(880)
         s1
```

Out[26]: {1, 2, 3, 4, 5, 6, 7, 8, 880}

coping the set

```
In [27]: s3=s1.copy()
         s3
```

Out[27]: {1, 2, 3, 4, 5, 6, 7, 8, 880}

```
In [28]: s3 ==s1
```

Out[28]: True

```
In [29]: s3.add(1000)
         s3
```

Out[29]: {1, 2, 3, 4, 5, 6, 7, 8, 880, 1000}

```
In [30]: s3.clear()
         s3
```

Out[30]: set()

```
In [31]: len(s2)
```

```
Out[31]: 5
```

```
In [32]: len(s1)
```

```
Out[32]: 9
```

```
In [33]: len(s3)
```

```
Out[33]: 0
```

```
In [34]: s1
```

```
Out[34]: {1, 2, 3, 4, 5, 6, 7, 8, 880}
```

```
In [18]: s1[0] # set doesnot provide index
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[18], line 1
----> 1 s1[0]

TypeError: 'set' object is not subscriptable
```

```
In [57]: s1.pop() # it remove delete fifo order
```

```
Out[57]: 100
```

```
In [20]: s1
```

```
Out[20]: {2, 3, 4, 5, 6, 7, 8, 880}
```

```
In [35]: s1.pop()
```

```
Out[35]: 1
```

```
In [37]: s1.pop()
```

```
Out[37]: 3
```

```
In [38]: s1.pop()
```

```
Out[38]: 4
```

```
In [39]: s1
```

```
Out[39]: {5, 6, 7, 8, 880}
```

```
In [43]: s1.remove(8)
```

```
In [41]: s1.discard(1000)
```

```
In [42]: s1.remove(880) # remove specific elements
```

```
In [44]:  for i in s1:
              print(i)
```

```
5
6
7
```

```
In [45]:  for i in enumerate(s1):
              print(i)
```

```
(0, 5)
(1, 6)
(2, 7)
```

```
In [46]:  s1.update("mahesh")
          s1
```

Out[46]: {5, 6, 7, 'a', 'e', 'h', 'm', 's'}

```
In [47]:  s1.update("darkness hing")
          s1
```

Out[47]: {' ', 5, 6, 7, 'a', 'd', 'e', 'g', 'h', 'i', 'k', 'm', 'n', 'r', 's'}

```
In [48]:  s2.update(15)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[48], line 1
----> 1 s2.update(15)

TypeError: 'int' object is not iterable
```

```
In [49]:  s2.update("7")
```

```
In [50]:  s2
```

Out[50]: {(5+5j), 143, 5.9, '7', True, 'hero'}

```
In [51]:  s2.update("9")
```

```
In [52]:  s2.update(9)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[52], line 1
----> 1 s2.update(9)

TypeError: 'int' object is not iterable
```

```
In [54]:  s1={100,101,102,103,105}
          s1
```

Out[54]: {100, 101, 102, 103, 105}

```
In [55]:  s1.update([143,184])
```

```
In [56]:  s1
```

Out[56]:   {100, 101, 102, 103, 105, 143, 184}

In [ ]: