```
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec  6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
s={3,1,4,5,2,2,1,3}
s
{1, 2, 3, 4, 5}
type(s)
<class 'set'>
len(s)
5
min(s)
1
max(s)
5
s1={10,20,30}
s1
{10, 20, 30}
s+s
Traceback (most recent call last):
  File "<pyshell#8>", line 1, in <module>
    s+s
TypeError: unsupported operand type(s) for +: 'set' and 'set'
s*2
Traceback (most recent call last):
  File "<pyshell#9>", line 1, in <module>
    s*2
TypeError: unsupported operand type(s) for *: 'set' and 'int'
s
{1, 2, 3, 4, 5}
s[2]
Traceback (most recent call last):
  File "<pyshell#11>", line 1, in <module>
    s[2]
TypeError: 'set' object is not subscriptable
s.add(6)
s
{1, 2, 3, 4, 5, 6}
s.add(1)
s
{1, 2, 3, 4, 5, 6}
s.add(s1)
```

```
Traceback (most recent call last):
  File "<pyshell#16>", line 1, in <module>
    s.add(s1)
TypeError: unhashable type: 'set'
s.clear()
s
set()
s={1,2,3,4,5,6}
s1
{10, 20, 30}
s2=s.copy()
s2
{1, 2, 3, 4, 5, 6}
s.pop()
1
s.discard(3)
s
{2, 4, 5, 6}
s.discard(10)
s.remove(4)
s.remove(10)
Traceback (most recent call last):
  File "<pyshell#28>", line 1, in <module>
    s.remove(10)
KeyError: 10
s
{2, 5, 6}
s1
{10, 20, 30}
s.update({4,5})
s
{2, 4, 5, 6}
s3={1,7,5}
s.update(s3)
s
{1, 2, 4, 5, 6, 7}
s
{1, 2, 4, 5, 6, 7}
s1={2,3,4}
s.union(s1)
{1, 2, 3, 4, 5, 6, 7}
```

```
s1={2,3,4,8}
s
{1, 2, 4, 5, 6, 7}
s
s1
{8, 2, 3, 4}
s.union(s1)
{1, 2, 3, 4, 5, 6, 7, 8}
s.intersection(s1)
{2, 4}
s.difference(s1)
{1, 5, 6, 7}
s1.difference(s)
{8, 3}
s.isdisjoint(s1)
False
s.symmetric_difference(s1)
{1, 3, 5, 6, 7, 8}
s.intersection_update(s1)
s
{2, 4}
s={1, 2, 4, 5, 6, 7}
>>> s.difference_update(s1)
>>> s
{1, 5, 6, 7}
>>> s={1, 2, 4, 5, 6, 7}
>>> s.symmetric_difference_update(s1)
>>> s
{1, 3, 5, 6, 7, 8}
>>> s.issubset(s1)
False
>>> s.issuperset(s1)
False
>>> s3={"surya","kiran","cse"}
>>> s4={1,"surya",2.5}
```