
```
s = " Hello Python "
```

```
s
```

```
↳ ' Hello Python '
```

```
s.lower()
```

```
↳ ' hello python '
```

```
s.upper()
```

```
↳ ' HELLO PYTHON '
```

```
s.isdigit()
```

```
↳ False
```

```
s.strip()
```

```
↳ 'Hello Python'
```

```
s.lstrip()
```

```
↳ 'Hello Python '
```

```
s.rstrip()
```

```
↳ ' Hello Python'
```

```
len(s)
```

```
↳ 17
```

```
s[2]
```

```
↳ 'H'
```

```
s[7 : 13]
```

```
↳ ' Pytho'
```

```
s.split()
```

```
↳ ['Hello', 'Python']
```

```
list = ['Mathematics', 'chemistry', 1997, 2000]
```

```
list.append(407)  
print (list)
```

```
↳ ['Mathematics', 'chemistry', 1997, 2000, 407]
```

```
list.insert(4,"hello")  
print (list)
```

```
↳ ['Mathematics', 'chemistry', 1997, 2000, 'hello', 407]
```

```
list1 = [1, 2, 3]
```

```
list2 = [2, 3, 4, 5]
```

```
list1.extend(list2)  
print(list1)
```

```
↳ [1, 2, 3, 2, 3, 4, 5]
```

```
list2.extend(list1)  
print(list2)
```

```
↳ [2, 3, 4, 5, 1, 2, 3, 2, 3, 4, 5]
```

```
list3 = [1,2,3,4,5]
```

```
print(sum(list3))
```

```
↳ 15
```

```
list4 = [1,2,3,4,5,7,3,4,3,1,1,1,7,8]
```

```
list4.count(7)
```

```
↳ 2
```

```
print(len(list4))
```

```
↳ 14
```

```
print(list4.index(7))
```

```
↳
```

```
s1 = {1,2,3,4}
s2 = {5,6,7,3}
```

```
print(s1 | s2)
print(s1.union(s2))
```

```
↳ {1, 2, 3, 4, 5, 6, 7}
   {1, 2, 3, 4, 5, 6, 7}
```

```
print(s1 & s2)
print(s1.intersection(s2))
```

```
↳ {3}
   {3}
```

```
print(s1 - s2)
print(s1.difference(s2))
```

```
↳ {1, 2, 4}
   {1, 2, 4}
```

```
print(s1 <= s2)
print(s1.issubset(s2))
```

```
↳ False
   False
```

```
print(s1 >= s2)
print(s1.issuperset(s2))
```

```
↳ False
   False
```

```
movie = {"title" : "The conjuring", "director" : "James Wan", "year" : 2012, "rating" : 9.
```

```
print(movie["year"])
```

```
↳ 2012
```

```
movie["rating"] = (movie["rating"] + 9.4) / 2
print(movie["rating"])
```

```
↳ 9.3
```

```
movie["actors"] = ["Vera farmiga" , "Patrick wilson"]
```

```
print(movie)
```

```
↳ {'title': 'The conjuring', 'director': 'James Wan', 'year': 2012, 'rating': 9.3
```

```
print(movie.values())
```

```
↳ dict_values(['The conjuring', 'James Wan', 2012, 9.3, ['Vera farmiga', 'Patrick
```

```
print(movie.keys())
```

```
↳ dict_keys(['title', 'director', 'year', 'rating', 'actors'])
```

```
print(movie.items())
```

```
↳ dict_items([('title', 'The conjuring'), ('director', 'James Wan'), ('year', 201
```

```
tup = ('bread' , 'ice-cream' , 'eggs')
```

```
print(tup)
```

```
↳ ('bread', 'ice-cream', 'eggs')
```

```
print(len(tup))
```

```
↳ 3
```

```
print(tup[2])
```

```
↳ eggs
```

```
print(tup + ('apple' , 'ball'))
```

```
↳ ('bread', 'ice-cream', 'eggs', 'apple', 'ball')
```

The End