

Python Data Types Cheatsheet

01. String and String Methods

```
>>> #lower(): Convert to lowercase.  
"Data".lower() # "data"
```

```
>>> #upper(): Convert to uppercase.  
"data".upper() # "DATA"
```

```
>>> #strip(): Remove leading/trailing whitespace  
" hello ".strip() # "hello"
```

```
>>> #lstrip(): Remove leading/trailing whitespace on left  
" hello ".lstrip() # "hello "
```

```
>>> #rstrip(): Remove leading/trailing whitespace on right  
" hello ".rstrip() # " hello"
```

```
>>> #.find(): Find index of substring.  
"analytics".find("y") # 4
```

```
>>> #.startswith(): Check if string starts with a substring.  
"report.csv".startswith("report") # True
```

```
>>> #.endswith(): Check if string ends with a substring.  
"report.csv".endswith(".csv") # True
```

```
>>> #in: Check if substring exists in string.  
"id" in "user_id" # True
```

```
>>> #.split(sep): Split string into list  
"apple,banana,organge,mango".split(",") # ["apple", "banana"]
```

```
>>> #.join(iterable): Join list into string.  
"-".join(["2025", "06", "03"]) # "2025-06-03"
```

```
>>> #.replace(old, new): Replace substring.  
"N/A".replace("N/A", "") # ""
```

```
>>> #.title(): Title-case string.  
"data science".title() # Data Science
```

```
>>> #.capitalize(): Capitalize first letter.  
"ricardo kaka".capitalize() # Ricardo kaka
```

```
>>> #.isdigit(): Check if all chars are digits.  
"123".isdigit() # True
```

```
>>> #.isalpha(): Check if all chars are letters.(No space even)  
"king".isalpha() # True
```

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```
>>> #.isalnum(): Check if all chars are alphanumeric.(No Space even)
"error404".isalnum() # True
```

```
>>> #.isspace(): Check if string has only spaces.
" ".isspace() # True
```

```
>>> #f-strings: Formatted string literals.
name = "Kohli"
game = "T20"
f"India's run machine is {name} in {game}"
```

```
>>> #.format(): Format string using placeholders.
"India's run machine is {} in {}".format("Kohli","T20")
```

```
>>> #.split(separator)
fruits = "Mango,Apple,Guava"
fruit_list = fruits.split(",")
fruit_list
```

```
>>> fruits_str = ",".join(fruit_list)
fruits_str
```

Strings are immutable, any change in the base string basically creates a new string

```
>>> str1 = "Kaka is the best football player"
print(str1)
print(str1.replace("Kaka","Ronaldo"))
print(str1)
```

```
>>> name = "Farhan"
print(name.upper())
print(name.lower())
print(name)
```

```
>>>
```

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02. Operators

>>> # 1. Arithmetic Operators

Operator Precedence PEMDAS

```
def arithmetic_operators(a, b):
    print("Arithmetic Operators:")
    print(f"{a} + {b} = {a + b}")      # Addition
    print(f"{a} - {b} = {a - b}")      # Subtraction
    print(f"{a} * {b} = {a * b}")      # Multiplication
    print(f"{a} / {b} = {a / b}")      # Division (float)
    print(f"{a} // {b} = {a // b}")    # Floor Division (integer)
    print(f"{a} % {b} = {a % b}")      # Modulus (remainder)
    print(f"{a} ** {b} = {a ** b}")    # Exponentiation
```

>>> # 2. Comparison Operators

```
def comparison_operators(x, y):
    print("\nComparison Operators:")
    print(f"{x} == {y}: {x == y}")    # Equal to
    print(f"{x} != {y}: {x != y}")    # Not equal to
    print(f"{x} > {y}: {x > y}")      # Greater than
    print(f"{x} < {y}: {x < y}")      # Less than
    print(f"{x} >= {y}: {x >= y}")    # Greater than or equal to
    print(f"{x} <= {y}: {x <= y}")    # Less than or equal to
```

>>> def logical_operators(p, q):

```
    print("\nLogical Operators:")
    print(f"{p} and {q}: {p and q}")  # Logical AND
    print(f"{p} or {q}: {p or q}")    # Logical OR
    print(f"not {p}: {not p}")        # Logical NOT
```

>>> # 4. Assignment Operators

```
def assignment_operators(value):
    print("\nAssignment Operators:")
    x = value
    print(f"Initial value: x = {x}")
    x += 5
    print(f"x += 5 -> {x}")
    x -= 2
    print(f"x -= 2 -> {x}")
    x *= 3
    print(f"x *= 3 -> {x}")
    x /= 2
    print(f"x /= 2 -> {x}")
    x //= 2
    print(f"x //= 2 -> {x}")
    x %= 3
    print(f"x %= 3 -> {x}")
    x **= 2
    print(f"x **= 2 -> {x}")
```

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>>> # 5. Bitwise Operators

```
def bitwise_operators(m, n):
    print("\nBitwise Operators:")
    print(f"{m} & {n} = {m & n}")      # Bitwise AND
    print(f"{m} | {n} = {m | n}")      # Bitwise OR
    print(f"{m} ^ {n} = {m ^ n}")      # Bitwise XOR
    print(f"~{m} = {~m}")              # Bitwise NOT (1's complement)
    print(f"{m} << 1 = {m << 1}")      # Left shift
    print(f"{m} >> 1 = {m >> 1}")      # Right shift
```

>>> # Sample execution

```
if __name__ == "__main__":
    arithmetic_operators(10, 3)
    comparison_operators(10, 3)
    logical_operators(True, False)
    assignment_operators(10)
    bitwise_operators(5, 3)
```

>>>

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03. Operator Precedence

```
>>> result = 3 + 4 * 2  
print(result) # 11 -> Multiplication (*) has higher precedence than addition (+)
```

```
>>> result = (3 + 4) * 2  
print(result) # 14 -> Parentheses alter precedence; addition happens first
```

```
>>> result = 10 - 3 ** 2  
print(result) # 1 -> Exponentiation (**) happens before subtraction (-)
```

```
>>> result = 100 / 10 * 5  
print(result) # 50.0 -> / and * have the same precedence, evaluated left to right
```

```
>>> result = True or False and False  
print(result) # True -> 'and' has higher precedence than 'or'
```

```
>>> result = 3**2**2  
print(result) # 81 -> 3**(2**2)
```

All operators have left to right precedence, but exponent has right to left precedence.

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04. If-elif-else

>>> #1. Check Missing Values

```
value = None
if value is None:
    print("Value is null")
else:
    print("Value is not null")
```

>>> #2. Categorize Age Groups

```
age = 60
if age<=11:
    print("Kid")
elif age>=12 and age<=18:
    print("Teenager")
elif age>=19 and age<=60:
    print("Adult")
else:
    print("Senior Citizen")
```

>>> #3. Data Type Checker isinstance(iterable,data_type)

#isinstance(iterable,datatype) retrurns Boolean only

```
data1 = [10,20,30]
data2 = {1:"Rahul",2:"Ramesh",3:"Suresh"}
if isinstance(data1,list):
    print("List")
elif isinstance(data1,dictionary):
    print("Dictionary")
else:
    print("Idk bro")
```

>>> if isinstance(data2,list):

```
    print("List")
elif isinstance(data2,dict):
    print("Dictionary")
else:
    print("Idk bro")
```

>>> my_list = [10,20,30,40,50]

```
print(isinstance(my_list,dict))
print(isinstance(my_list,str))
print(isinstance(my_list,list))
```

>>> # 4. Check for Outliers

```
value = 4502      # The number we're checking
mean = 50         # The average of all numbers
threshold = 3     # How far is "too far"? This is our limit.
std_dev = 20      # Standard deviation = how spread out the data is
```

```
if abs(value - mean) > threshold * std_dev:
```

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```
    print("Outlier detected")
else:
    print("Value is normal")
```

```
>>> #5. Detect Empty Dataset
data_set = [] #By default if the data_set is empty its treated as False
data_set_value = [1,2,3,4,5,6,7]
if not data_set:    #If not false(true):
    print("Empty Set")
else:
    print("Not Empty")

if not data_set_value:
    print("Empty Set")
else:
    print("Not Empty")
```

```
>>> #6. Model Evaluation Based on Accuracy
accuracy = 0.82
```

```
if accuracy >= 0.9:
    print("Excellent Model")
elif accuracy >= 0.75:
    print("Good Model")
elif accuracy >= 0.6:
    print("Average Model")
else:
    print("Poor Model")
```

```
>>> #7. Check for NaN (NumPy)
import numpy as np
```

```
x = np.nan
#NaN is not equal to anything, not even to itself!
```

```
if np.isnan(x):
    print("Value is NaN")
else:
    print("Value is not NaN")
```

```
>>> #8. Classify Sentiment Based on Score
score = -0.2
```

```
if score > 0:
    print("Positive Sentiment")
elif score < 0:
    print("Negative Sentiment")
else:
    print("Neutral Sentiment")
```

```
>>> #9. Check Column Presence in DataFrame
```

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```
import pandas as pd
```

```
df = pd.DataFrame({'name': ['Alice'], 'age': [25]})  
print(df)
```

```
if 'salary' in df.columns:  
    print("Salary column exists")  
else:  
    print("Salary column missing")
```

```
>>> #10. Determine Leap Year  
year = 2024
```

```
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):  
    print("Leap year")  
else:  
    print("Not a leap year")
```

```
>>>
```


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05. Match Case

```
>>> # HTTP Server Error Code
```

```
def http_response_code(code):  
    match code:  
        case 500 : print("Internal Server Error")  
        case 404 : print("Page Not Found")  
        case 400 : print("Bad Request")  
        case _ : print("Unknown Error")  
http_response_code(500)
```

```
>>> #1. Match column data type (from pandas)
```

```
def describe_column(dtype):  
    match dtype:  
        case 'int64':  
            return "Integer column"  
        case 'float64':  
            return "Floating point column"  
        case 'object':  
            return "Categorical/Text column"  
        case _:  
            return "Other data type"
```

```
print(describe_column('object')) # Output: Categorical/Text column
```

```
>>> #2. Handle ML model names
```

```
def handle_ml_model(model_name):  
    match model_name.lower():  
        case "kmeans" :  
            return "Clustering Model"  
        case "linear regression" :  
            return "Regressin Model"  
        case "decision tree":  
            return "Classification Model"  
        case _:  
            return "Unknown Model"  
print(handle_ml_model("Decision tree"))
```

```
>>> #3. Analysing number of columns
```

```
def no_of_cols(col_count):  
    match col_count:  
        case 0 :  
            return "Empty Dataset"  
        case 1:  
            return "Only Index Col"  
        case 2:  
            return "Two Columns"  
        case _ if col_count>3 and col_count<10:  
            return "Normal Count"  
        case _:
```

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```
        return "Out of Scope"
print(no_of_cols(2))
print(no_of_cols(5))
print(no_of_cols(100))

>>> def file_type(filename):
    match filename.split(".")[1]:
        case "csv" :
            return "Comma-Separated Value"
        case "pdf" :
            return "PDF File"
        case "txt" :
            return "Text File"
        case _:
            return "Unknown File Type"
```

```
filename="diwali_sales.csv"
file_type(filename)
```

```
>>> #4. Matching Datastructures
point = (2,0)
def locate_point(point):
    match point:
        case (0,0) :
            return "Origin"
        case (x,0) :
            return "On X-Axis at {}".format(x)
        case (0,y):
            return "On Y-Axis at {}".format(y)
        case _:
            return "In the open plane"
locate_point(point)
```

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06. f-Strings and format

****format()****

```
>>> name = "Alice"
age = 25
print("My name is {} and I am {} years old.".format(name, age))
```

- Positional Argument in .format()

```
>>> print("My age is {1} and my name is {0}".format(name, age))
```

- Keyword Argument in .format()

```
>>> print("My age is {age} years and My name is {name}".format(age=35,name="Kohli"))
```

****f-string****

```
>>> name = "Virat"
age = 29
print(f"India's run machine : {name} is {age} years old")
```

```
>>> # Expressions Inside f-Strings
a = 5
b = 10
print(f"Sum of {a} and {b} is {a + b}")
# Output: Sum of 5 and 10 is 15
```

```
>>> #Formatting Numbers
pi = 3.14159
print(f"Value of pi rounded to 2 decimal places is: {pi:.2f}")
```

```
>>> #Padding and Alignment
print(f"{'Python':<10}") # Left-align
print(f"{'Python':>10}") # Right-align
print(f"{'Python':^10}") # Center-align
#:<10 → The < symbol means left-align the text within a total width of 10 characters
print(f"{'Python':<1}")
```

```
>>>
```

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08. List and List Methods

```
>>> # Empty list
my_list = []
print(my_list)
# List with elements
numbers = [1, 2, 3, 4, 5]
print(numbers)
```

```
>>> """ Why it works:
In Python, empty sequences (like [], "", {}) are treated as False when used in a condition.
```

```
So, not my_list becomes True if the list is empty. """
my_list = []
if not my_list:
    print("List is empty")
else:
    print("List is not empty")
```

- string.split("separator") : Converts str into list

```
>>> str1 = "Apple,Mano,Banana"
list1 = str1.split(",")
print(list1)
```

- "separator".join(list) : Converts list into str

```
>>> str2 = ",".join(list1)
str2
```

```
>>> # Mixed data types
mixed_list = [1, "Hello", 3.14, True, 3j+2]
mixed_list
```

****List Methods****

```
>>> my_list = [10,"hello"]
```

```
>>> #append(x) : Adds an element x to the end of the list.
my_list.append(20)
print(my_list)
```

```
>>> #extend(iterable) : Extends the list by appending all elements from an iterable.\
ext_list = [30,"Jo"]
my_list.extend(ext_list)
print(my_list)
```

```
>>> #insert(index, x) : Inserts x at the specified index .
print(my_list[2])
my_list.insert(2,200)
```

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```
print(my_list)
```

```
>>> #remove(x) : Removes the first occurrence of x in the list.
```

```
my_list.remove(30)
```

```
print(my_list)
```

```
>>> #pop([index]) : Removes and returns the element at index (last element if index is not provided).
```

```
print(my_list[2])
```

```
popped_elem = my_list.pop(2)
```

```
print(my_list)
```

```
print(popped_elem)
```

```
>>> # index(x) : Returns the index of the first occurrence of x .
```

```
print(my_list.index('hello'))
```

```
>>> #count(x) : Returns the number of times x appears in the list.
```

```
my_list.count('Jo')
```

```
>>> #sort() : Sorts the list in ascending order.
```

```
#my_list.sort() will show error because the list has both str and int vals
```

```
>>> #reverse() : Reverses the order of the list.
```

```
print(my_list)
```

```
my_list.reverse()
```

```
print(my_list)
```

```
>>> #copy() : Returns a shallow copy of the list.
```

```
print(my_list)
```

```
copy_list = my_list.copy()
```

```
print(copy_list)
```

```
>>> my_list[1] = "Yo"
```

```
print(my_list)
```

```
print(copy_list)
```

```
>>> print(copy_list)
```

```
copy_list[2] = "Hon"
```

```
print(my_list)
```

```
print(copy_list)
```

Copy Type	Affects Other List?	When?
-----	-----	-----
<code>`copy()`</code>	<input type="checkbox"/> No	If list contains only simple values
<code>`copy()`</code>	<input type="checkbox"/> Yes	If list contains nested/mutable values
<code>`deepcopy()`</code>	<input type="checkbox"/> Never	Completely safe, but slower

```
>>> fruits = ['apple', 'watermelom', 'banana', 'peach', 'cherry', 'orange']
```

```
fruits.sort()
```

```
print(fruits)
```

****Difference between sort() and sorted()****

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Feature	`sort()`	`sorted()`
Applicable to	Lists only	Any iterable (list, tuple, set, dict, etc.)
Return value	Returns `None`	Returns a **new sorted list**
In-place modification	☑ Yes (modifies the original list)	☐ No (original data remains unchanged)
Original data	Changes	Unchanged
Usage syntax	`list.sort()`	`sorted(iterable)`
Flexibility	Less flexible	More flexible (can work on any iterable)
Performance	Slightly faster for lists	Slightly slower due to creating a new list

```
>>> list1 = [10,2,3,5,22,-9,-10]
print(list1) # Sorts the original list
```

```
>>> list2 = [-9.100,33,12,-8.12]
new_list2 = sorted(list2)
print(list2) # Original list remains unchanged
print(new_list2) # A new sorted list is created
```

```
>>> # Concatenation of list
list1 = [10,12,3,4,9]
list2 = [5,32,97,-4]
list3 = list1+list2
list3.sort()
print(list3)
print(list2) # Original List remains unchanged
print(list1) # Original List remains unchanged
```

Membership of Element in List

```
>>> list1 = [10,12,3,4,9]
if 3 in list1: # (3 in list1) returns a boolean value
    print("yes")
else:
    print("no")
```

```
>>> crew = "jack-john-salman-rashid"
(crew.title()).split("-")
```

```
>>> players = "dhoni-rohit-kohli-jadeja-shami"
pl_list = players.split("-")
ans = [i.title() for i in pl_list]
print(ans)
```

```
>>> players = "dhoni-rohit-kohli-jadeja-shami"
pl_list = players.split("-")
ans = []
for i in pl_list:
    ans.append(i.title())
print(ans)
```

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10. Tuples and Methods

****Tuples are same as Lists but the only difference is they are immutable. Tuples are faster than lists****

```
>>> # Empty Tuple
```

```
tup = ()
```

```
tup
```

```
>>> # Single Element Tuple
```

```
tup = (1)
```

```
print(type(tup))
```

```
true_tup = (1,) # , is necessary
```

```
print(type(true_tup))
```

```
>>> # Tuple
```

```
tup = (2,4,5,23)
```

```
tup
```

```
>>> # Mixed Tuple
```

```
tup = (1,2,5+4j,True,5.12,"Yo")
```

```
tup
```

```
>>> # Check if the tuple is empty
```

```
my_tup = ()
```

```
if not my_tup:
```

```
    print("Empty")
```

```
else:
```

```
    print("Not Empty")
```

Tuple Methods

```
>>> newtup = (10,2,30,"Hi",99,-12,10,2,2,2)
```

```
newtup
```

```
>>> newtup.count(2)
```

```
>>> newtup.index(2)
```

```
>>> len(newtup)
```

```
>>> # Tuple Packing
```

```
data = 10,"hi",True # same as data = (10,"hi",True)
```

```
print(data)
```

```
>>> # Tuple Unpacking
```

```
num,msg,status = data
```

```
print(num)
```

```
print(msg)
```

```
print(status)
```

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```
>>> # Membership Testing
10 in newtup
```

```
>>> # Concatenation
t1 = (1, 2)
t2 = (3, 4)
t3 = t1 + t2 # Output: (1, 2, 3, 4)
t3
```

```
>>> # Repeataction
t1 = (1, 2)
t1 * 3 # Output: (1, 2, 1, 2, 1, 2)
```

```
>>> #Zip
names = ['Alice', 'Bob']
scores = [85, 90]
card = list(zip(names,scores))
card #List of Tuples
```

```
>>> card_tup = tuple(zip(names,scores))
card_tup #Nested Tuple
```

Accessing Tuple Elements

```
>>> tuple1 = (10,20,10,2,23,10)
tuple1[2]
```

```
>>> tuple1[::-1]
```


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11. Sets and Methods

Unordered, Mutable and Unique. Set always stores values in sorted manner

```
>>> # Empty Set
empty_set = set()
empty_set
```

```
>>> # Number set
nos = {1,2,3,4,5}
nos
```

```
>>> # Mixed Set
mixed_set = {1,2,True,5+4j,7.123,"YO"}
mixed_set
```

```
>>> # Converting list into set -- be observant about uniqueness
new_set1 = set([1,2,2,3,4,5,5,True,True])
new_set1 #True is treated as the number 1 in Python, because True ==1
```

```
>>> new_set2 = set([2,2,"Yo","Yo","Yo",False,False,2,2,True,True])
new_set2
```

```
>>> final_set = {1,2,3,4}
final_set
```

```
>>> final_set.add(22) #Add one element
final_set
```

```
>>> final_set.update([10,20,30,40,50]) # Add multiple elements
final_set
```

```
>>> final_set.remove(40)
final_set
```

```
>>> #final_set.remove(40) #raises error if not found
final_set.discard(50)
final_set.discard(50) # Doesnt raises error if not found
```

```
>>> pop_elem = final_set.pop() #returns and removes random elements
final_set
```

```
>>> doomsday = final_set.copy() #SHallow Copy
doomsday
```

```
>>> final_set.clear()
```

```
>>> final_set
```

```
>>> doomsday
```

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****Set Operations****

>>> #1. Union

a = {1, 2, 3}

b = {3, 4, 5}

print(a | b) # {1, 2, 3, 4, 5}

print(a.union(b)) # {1, 2, 3, 4, 5}

>>> #2. Intersection (& or .intersection())

print(a & b) # {3}

print(a.intersection(b)) # {3}

>>> # 3. Difference (- or .difference())

print(a - b) # {1, 2}

print(a.difference(b)) # {1, 2}

>>> #4. Symmetric Difference (^ or .symmetric_difference()) : Items in either set, but not in both.

print(a ^ b) # {1, 2, 4, 5}

print(a.symmetric_difference(b)) # {1, 2, 4, 5}

>>> #Subset and Superset

a = {1, 2}

b = {1, 2, 3, 4}

print(a <= b) # True (a is a subset of b)

print(b >= a) # True (b is a superset of a)

>>> #6. Disjoint Sets (.isdisjoint()): Check if two sets have no elements in common

x = {1, 2}

y = {3, 4}

print(x.isdisjoint(y)) # True

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12. Dictionary and Methods

****Python dictionaries are key indexed. ex: nameOfDict[key] will work****

```
>>> mydict = {
    1: "Mohammad Areeb Ahmad",
    2: "Ricardo Kaka",
    3: "Lionel Messi",
    4: "Ronaldo"
}
mydict
```

```
>>> # Check if dictionary is empty
if not mydict:
    print("Empty")
else:
    print("True")
```

```
>>> record = {
    'name': 'Alice',
    'age': 30,
    'profession': 'Data Scientist',
    'skills': ['Python', 'SQL', 'Pandas']
}
```

```
>>> # 1. get() : Safely access a key — no error if key doesn't exist.
print(record.get('age'))          # 30
print(record.get('gender', 'N/A')) # 'N/A'
print(record.get('degree'))       # None
```

```
>>> #2. items() : Loop over keys and values.
for key, value in record.items():
    print(f"{key} : {value}")
```

```
>>> #3. keys()
print(record.keys())
print(list(record.keys()))
```

```
>>> #4. values()
print(record.values())
print(list(record.values()))
```

```
>>> #7. setdefault() : Set a default if key doesn't exist.
record.setdefault("City", "Delhi")
record
```

```
>>> #8.fromkeys() : Make a new dict from a list of keys.
fields = ['name', 'age', 'gender']
empty_profile = dict.fromkeys(fields, None)
print(empty_profile)
```

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```
# {'name': None, 'age': None, 'gender': None}
```

```
>>> record_copy = record.copy()
print(record_copy)
```

```
>>> #10. .pop() :Removes the specified key from the dictionary and returns its value.
record = {'name': 'Alice', 'age': 30, 'profession': 'Data Scientist'}
```

```
value = record.pop('age')
print(value)    # 30
print(record)   # {'name': 'Alice', 'profession': 'Data Scientist'}
```

```
# If key doesn't exist:
record.pop('city', 'Not Found') # returns 'Not Found'
#record.pop('gender')           # [] raises KeyError
```

```
>>> #11. .popitem() : Removes and returns the last inserted (key, value) pair as a tuple.
record = {
    'name': 'Alice',
    'age': 30,
    'profession': 'Data Scientist'
}
```

```
item = record.popitem()
print(item)    # ('profession', 'Data Scientist')
print(record)  # {'name': 'Alice', 'age': 30}
```

```
>>> # If dict is empty:
empty = {}
#empty.popitem() # [] KeyError
```

```
>>> mydict1 = {
    1: "Mohammad Areeb Ahmad",
    2: "Ricardo Kaka",
    3: "Lionel Messi",
    4: "Ronaldo"
}
mydict1
```

```
>>> mydict1[1]
```

```
>>> mydict1[3]
```

```
>>> mydict1.update({4:"Pele"})
```

```
>>> mydict1
```

```
>>> mydict1.update({2:"Kafu",5:"Zidane",6:"Marcelo"})
mydict1
```

```
>>>
```

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```
>>>
```