🐍 Python Cheat Codes – Built-in Methods & Functions

✅ 1. Basic Built-in Functions

Function Description

print()   Displays output to the console

input()   Takes user input as a string

type()   Returns the type of a variable

len()   Returns the length (number of items)

int()   Converts to integer

str()   Converts to string

float()   Converts to float

bool()   Converts to boolean

range()   Returns a sequence of numbers

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```
x = input("Enter name: ")       # input
print("Hello", x)             # print
print(type(x))               # type
```

🧠 2. String Methods

Method	Description
.lower()	Converts all characters to lowercase
.upper()	Converts to uppercase
.strip()	Removes whitespace from both sides
.replace(a, b)	Replaces string a with b
.split()	Splits string into a list
.find()	Finds index of a substring

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```
text = "  Hello World  "

print(text.strip())        # "Hello World"

print(text.lower())         # "  hello world  "

print(text.replace("World", "Python"))  # "  Hello Python  "
```

🔢 3. List Methods

Method	Description
.append(x)	Adds element at the end
.insert(i, x)	Inserts at index i
.remove(x)	Removes first occurrence of x
.pop()	Removes and returns last item
.sort()	Sorts the list
.reverse()	Reverses the list

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```python
nums = [3, 1, 4]
nums.append(2)     # [3, 1, 4, 2]
nums.sort()        # [1, 2, 3, 4]
nums.pop()          # [1, 2, 3]
```

📦 4. Dictionary Methods

Method	Description
.keys()	Returns list of keys
.values()	Returns list of values
.items()	Returns key-value pairs
.get(key)	Gets value for a key
.update()	Updates dictionary with another dict

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```python
person = {"name": "Himanth", "age": 20}

print(person.get("name"))      # Himanth

print(person.keys())           # dict_keys(['name', 'age'])
```

📚 5. Set Methods

Method	Description
.add(x)	Adds item to set
.remove(x)	Removes item (error if not present)
.discard(x)	Removes item (no error if not present)
.union(set2)	Combines two sets
.intersection(set2)	Common elements

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```python
a = {1, 2, 3}
b = {3, 4}
print(a.union(b))        # {1, 2, 3, 4}
print(a.intersection(b))  # {3}
```

🔁 6. Loop Helpers

Function	Description
range()	For loop ranges
enumerate()	Gives index + value in loop
zip()	Combines two lists

🖍️ 7. Other Useful Functions

Function Description

sum()   Sum of numbers in list

max()   Largest value

min()   Smallest value

sorted() Returns a sorted list

abs()   Absolute value

round()   Rounds number

all()   Returns True if all values are true

any()   Returns True if any value is true

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```python
nums = [1, 2, 3]
print(sum(nums))      # 6
print(max(nums))      # 3
print(min(nums))      # 1
```