# Maximum and Minimum a Set.  
# Create a set of numbers  
numbers = {1, 5, 8, 3, 6, 9, 2}  
# Find the maximum and minimum values in the set  
max\_num = max(numbers)  
min\_num = min(numbers)  
print("Maximum number in the set:", max\_num)  
print("Minimum number in the set:", min\_num)  
#Count number of vowels using sets in a given string.  
# Define a string  
string = "Hello, World!"  
# Convert the string to lowercase and create a set of vowels  
vowels = set("aeiou")  
string\_lower = string.lower()  
# Count the number of vowels in the string  
vowel\_count = sum(letter in vowels for letter in string\_lower)  
print("Number of vowels in the string:", vowel\_count)  
# Dictionary with keys having multiple inputs.  
# Create a dictionary with keys having multiple inputs  
students = {  
 "Alice": {"age": 20, "major": "Computer Science"},  
 "Bob": {"age": 22, "major": "Mathematics"},  
 "Charlie": {"age": 21, "major": "Physics"}  
}  
# Access the values in the dictionary  
for name, info in students.items():  
 print(f"{name}'s age is {info['age']} and major is {info['major']}")  
# Find the sum of all items in a dictionary.  
# Create a dictionary of numbers  
numbers = {"a": 1, "b": 2, "c": 3, "d": 4}  
# Find the sum of all items in the dictionary  
sum\_numbers = sum(numbers.values())  
print("Sum of all items in the dictionary:", sum\_numbers)