Muhammad Ali Ahmar

S2023266041

# 10 random Questions with python

## #1 Question: Create a tuple from user input and print the first and last element.

n = int(input("How many elements? "))

data = []

for i in range(n):

data.append(input("Enter element: "))

data = tuple(data)

print("First element:", data[0])

print("Last element:", data[-1])

How many elements? 5

Enter element: 12

Enter element: 34

Enter element: 56

Enter element: 78

Enter element: 910

First element: 12

Last element: 910

## #2 Question: Take user input and create a set to remove duplicates.

n = int(input("How many items? "))

items = set()

for i in range(n):

items.add(input("Enter item: "))

print("Unique items are:", items)

How many items? 4

Enter item: apple

Enter item: banana

Enter item: apple

Enter item: orange

Unique items are: {'orange', 'apple', 'banana'}

## #3 Question: Take a list of numbers and calculate the sum using a loop.

n = int(input("How many numbers? "))

nums = []

for i in range(n):

nums.append(int(input("Enter number: ")))

total = 0

for num in nums:

total += num

print("Sum is:", total)

How many numbers? 10

Enter number: 1

Enter number: 2

Enter number: 3

Enter number: 4

Enter number: 5

Enter number: 5

Enter number: 5

Enter number: 3

Enter number: 2

Enter number: 4

Sum is: 34

## #4 Question: Check if the entered number is even or odd.

num = int(input("Enter a number: "))

if num % 2 == 0:

print(num, "is Even")

else:

print(num, "is Odd")

Enter a number: 123

123 is Odd

## #5 Question: Take input, convert to tuple, and print the element at index 2.

n = int(input("How many colors? "))

colors = []

for i in range(n):

colors.append(input("Enter color: "))

colors = tuple(colors)

print("Element at index 2 is:", colors[2])

How many colors? 3

Enter color: red

Enter color: teal

Enter color: pink

Element at index 2 is: pink

## #6 Question: Take two sets from the user and print their union.

n1 = int(input("How many elements in first set? "))

set1 = set()

for i in range(n1):

set1.add(input("Enter element: "))

n2 = int(input("How many elements in second set? "))

set2 = set()

for i in range(n2):

set2.add(input("Enter element: "))

print("Union of sets is:", set1.union(set2))

How many elements in first set? 3

Enter element: 1

Enter element: 2

Enter element: 3

How many elements in second set? 4

Enter element: 4

Enter element: 5

Enter element: 6

Enter element: 7

Union of sets is: {'6', '7', '1', '2', '4', '3', '5'}

## #7 Question: Find the largest number in a list.

n = int(input("How many numbers? "))

nums = []

for i in range(n):

nums.append(int(input("Enter number: ")))

print("Maximum number is:", max(nums))

How many numbers? 6

Enter number: 88

Enter number: 33

Enter number: 44

Enter number: 55

Enter number: 666

Enter number: 213

Maximum number is: 666

## #8 Question: Print multiplication table of a given number.

n = int(input("Enter a number: "))

for i in range(1, 11):

print(n, "x", i, "=", n\*i)

Enter a number: 7

7 x 1 = 7

7 x 2 = 14

7 x 3 = 21

7 x 4 = 28

7 x 5 = 35

7 x 6 = 42

7 x 7 = 49

7 x 8 = 56

7 x 9 = 63

7 x 10 = 70

## #9 Question: Find the largest number among three entered by the user.

a = int(input("Enter first number: "))

b = int(input("Enter second number: "))

c = int(input("Enter third number: "))

if a >= b and a >= c:

print("Largest is:", a)

elif b >= a and b >= c:

print("Largest is:", b)

else:

print("Largest is:", c)

Enter first number: 23

Enter second number: 21

Enter third number: 22

Largest is: 23

## #10 Question: Take a list of numbers and print only the even ones.

n = int(input("How many numbers? "))

nums = []

for i in range(n):

nums.append(int(input("Enter number: ")))

print("Even numbers are:")

for num in nums:

if num % 2 == 0:

print(num)

How many numbers? 6

Enter number: 2

Enter number: 3

Enter number: 4

Enter number: 5

Enter number: 6

Enter number: 2

Even numbers are:

2

4

6

2