**Q1. Write a Python program to find the number of times 4 appears in the tuple. Input: tuplex = (2, 4, 5, 6, 2, 3, 4, 4, 7 ) Output: 3**

def count\_number\_in\_tuple(tuplex, num): return tuplex.count(num)

# Input

tuplex = (2, 4, 5, 6, 2, 3, 4, 4, 7)

number\_to\_count = 4

# Output

count = count\_number\_in\_tuple(tuplex, number\_to\_count)

print("Number of times", number\_to\_count, "appears:", count)

def list\_to\_tuple(lst):

return tuple(lst) # Use tuple() to convert list to tuple

# Input

listx = [5, 10, 7, 4, 15, 3]

# Output

converted\_tuple = list\_to\_tuple(listx)

print("Converted tuple:", converted\_tuple)

**OUTPUT:**

Sum of all items: 15

Q2. 2.Write a Python program to convert a list to a tuple. Input: listx = [5, 10, 7, 4, 15, 3] Output: (5, 10, 7, 4, 15, 3)

def list\_to\_tuple(lst):

return tuple(lst) # Use tuple() to convert list to tuple

# Input

listx = [5, 10, 7, 4, 15, 3]

# Output

converted\_tuple = list\_to\_tuple(listx)

print("Converted tuple:", converted\_tuple)

**OUTPUT:**

Converted tuple: (5, 10, 7, 4, 15, 3)

**Q3.Write a Python program to calculate the sum of the numbers in a given tuple. Input: tuples\_list = [(1, 2), (3, 4), (5, 6)]**

def sum\_of\_tuples(tuples\_list):

total\_sum = 0

for tup in tuples\_list: # Iterate through each tuple

total\_sum += sum(tup) # Sum each tuple and add to total

return total\_sum

# Input

tuples\_list = [(1, 2), (3, 4), (5, 6)]

# Output

total = sum\_of\_tuples(tuples\_list)

print("Sum of the numbers in the tuples:", total)

**OUTPUT:**

Sum of the numbers in the tuples: 21

**Q4. 4.Write a python program and iterate the given tuples Input: employee1 = ("John Doe", 101, "Human Resources", 60000) employee2 = ("Alice Smith", 102, "Marketing", 55000) employee3 = ("Bob Johnson", 103, "Engineering", 75000)**

def display\_employee\_info(employee):

print("Name:", employee[0])

print("ID:", employee[1])

print("Department:", employee[2])

print("Salary:", employee[3])

print() # For better formatting

# Input

employee1 = ("John Doe", 101, "Human Resources", 60000)

employee2 = ("Alice Smith", 102, "Marketing", 55000)

employee3 = ("Bob Johnson", 103, "Engineering", 75000)

# Output display\_employee\_info(employee1)

display\_employee\_info(employee2)

display\_employee\_info(employee3)

**OUTPUT:**

Splitted list: [1, 1, 2] [3, 4, 4, 5, 1]