Python Programming - 2304CS401

Lab - 6

Understand Working of tuple

01) . Write a program to enter values and reverse the tuple

In [3]:
```python
values = input("Enter values separated by spaces: ")
tuple_data = tuple(values.split())
print(tuple_data)
reversed_tuple = tuple_data[::-1]


print("Reversed tuple:", reversed_tuple)
```

```
('10', '20', '30', '40', '50')
Reversed tuple: ('50', '40', '30', '20', '10')
```

02) Write a program to remove duplicate values from the tuple.

In [4]:
```python
values = input("Enter values separated by spaces: ")
tuple_data = tuple(values.split())

print(tuple_data)
unique_tuple = tuple(set(tuple_data))

print("Tuple after removing duplicates:", unique_tuple)
```

```
('1', '2', '3', '4', '1', '5', '2')
Tuple after removing duplicates: ('1', '3', '5', '4', '2')
```

03) Write a program to check if the tuple is distinct or not.

```python
values = input("Enter values separated by spaces: ")
tuple_data = tuple(values.split())
print(tuple_data)

is_distinct = len(tuple_data) == len(set(tuple_data))

# Display result
if is_distinct:
    print("The tuple is distinct.")
else:
    print("The tuple is not distinct.")
```

```
('10', '20', '30', '40')
The tuple is distinct.
```

04) WAP to find Tuples with positive elements in List of tuples.

```python
l1=[(4,5),(-3,5),(5,10)]
pos=[]
for i in l1:
    for j in i:
        if j<0:
            break
    else:
        pos.append(i)
print(pos)
```

```
[(4, 5), (5, 10)]
```

05) Write a program to find tuples that have all elements divisible by k from a list of tuples

```python
n = int(input("Enter number of tuples: "))
k = int(input("Enter the value of k: "))
list_of_tuples = []

for i in range(n):
    tuple_values = tuple(map(int, input(f"Enter values for tuple {i + 1} se
    list_of_tuples.append(tuple_values)

divisible_tuples = [t for t in list_of_tuples if all(x % k == 0 for x in t)

print("Tuples where all elements are divisible by k:", divisible_tuples)
```

```
Tuples where all elements are divisible by k: [(3, 6, 9), (9, 12, 15)]
```