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Roll No.:-16

Assignment No.: 03 (3.3 Concept of Mutability and Immutability in Python)

Assignment Title: Develop programs to learn concept of functions scoping, recursion and list mutability.

Code:

**3.3 Mutability and Immutability in Python:**

**3.3.1 Mutability of List:**

list=['Neha','Harshada','vaishali','chetana','krushnali','kanchan','kajal']

print("original list")

print(list)

#changing element at index 4,i.e., e to hello

list[5]='hello'

print("changed list")

print(list)

**Output:**

original list

['Neha', 'Harshada', 'vaishali', 'chetana', 'krushnali', 'kanchan', 'kajal']

changed list

['Neha', 'Harshada', 'vaishali', 'chetana', 'krushnali', 'hello', 'kajal']

**3.3.2 Mutability of Dictionary:**

my\_dict={"name":"Neha","age":21}

my\_dict["age"]=23

print(my\_dict)

**Output:**

{'name': 'Neha', 'age': 23}

**3.3.3 Immutability of Tuples:**

tuple=(20,30,40,50)

tuple[0]=4

print(tuple)

**Output:**

**---------------------------------------------------------------------------**

**TypeError** Traceback (most recent call last)

Cell **In[15], line 2**

1 tuple=(20,30,40,50)

**----> 2** tuple[0]=4

3 print(tuple)

**TypeError**: 'tuple' object does not support item assignment