In [1]:

```
# 1.Create a list and fetch all from the list and print these values.

list = ["Debarghya", "python", "I love coding", 47,89,77 ]
print(list)
```

```
['Debarghya', 'python', 'I love coding', 47, 89, 77]
```

In [2]:

```
# 2. Write a python program to print the length of a list.

list = ["python", "java", "sql", "c", "html", "r", "perl"]
print(len(list))
```

```
7
```

In [10]:

```
# 3. Write a python program to check if an element is present or not in the list. If present print “Item is present in this list” or print

list = ["python", "java", "sql", "c", "r", "perl"]
x = "html"
if x in list:
    print("Item is present in this list")
else:
    print("Item is not present in this list")
```

```
Item is not present in this list
```

In [12]:

```
# 4.Different way to clear a list.

list = ["python", "java", "sql", "c", "r", "perl"]
del list[3]
print(list)
```

```
['python', 'java', 'sql', 'r', 'perl']
```

In [14]:

```
# 4.1. Write a program to add all the elements in this list.

cities = ["Delhi", "Mumbai", "Kolkata", "Chennai", "Lucknow"]
cities.append("Bangalore")
print(cities)
```

```
['Delhi', 'Mumbai', 'Kolkata', 'Chennai', 'Lucknow', 'Bangalore']
```

In [15]:

```
#5. Copy a list in to another list

dogs = ["golden retrieve", "german shepherd ", "bulldog", "poodle"]
dogs.copy()
print(dogs)
```

```
['golden retrieve', 'german shepherd ', 'bulldog', 'poodle']
```

In [20]:

```
# 6.Find the maximum and minimum number in a list.
numbers = [10,480,578,125,1058,12658,100,250]
print(max(numbers))
```

```
12658
```

In [1]:

```
# 7. Write a program to multiply two lists and save them into another list.

list1 = [5,5,8,7]
list2 = [5,8,7,4]
result = []
for i1, i2 in zip(list1,list2):
    result.append(i1*i2)
    print("The product of 2 lists is:", result)
```

```
The product of 2 lists is: [25]
The product of 2 lists is: [25, 40]
The product of 2 lists is: [25, 40, 56]
The product of 2 lists is: [25, 40, 56, 28]
```

In [3]:

```
# 8. Create a tuple and fetch all the from the tuple and print these values.

tuple = ["apple", "india", "dubai", "united kingdom", 4,9,11, "south africa"]
print(tuple[7])
print(tuple[2])
print(tuple[3])
print(tuple[5])
```

```
south africa
dubai
united kingdom
9
```

In [4]:

```
# 9. Write a python program to print the length of a tuple.

tuple = ["Bioinformatics", "Microbiology", "Zoology", "Botany", "Biotechnology", "Information Technology"]
print(len(tuple))
```

```
6
```

In [5]:

```
# 10. Write a python program to add two different tuples.

tuple1 = ["Bioinformatics", "Microbiology", "Zoology", "Botany", "Biotechnology", "Information Technology"]
tuple2 = ["apple", "india", "dubai", "united kingdom", 4,9,11, "south africa"]
tuple = tuple1+tuple2
print(tuple)
```

```
['Bioinformatics', 'Microbiology', 'Zoology', 'Botany', 'Biotechnology', 'Information Technology', 'apple', 'india', 'duba
i', 'united kingdom', 4, 9, 11, 'south africa']
```

In [1]:

```
# 11. Create a dictionary and fetch all from the dictionary and print these values.

dictionary = {"TCS", "Wipro", "Infosys", "IBM", "COGNIZANT"}
print(dictionary)
```

```
{'TCS', 'COGNIZANT', 'IBM', 'Infosys', 'Wipro'}
```

In [12]:

```
# 12. Get all the keys and values from a dictionary.

demoDictionary = {9658: "python", 1080: "java", 4150: "perl"}
keyslist = list(demoDictionary.keys())
print(keyslist)
```

```
[9658, 1080, 4150]
```

In [13]:

```
# 13. Add a new Item in a dictionary.

dictionary = {'a': 829, 'u' :1287}
print("original dictionary", dictionary)
dictionary['a'] = 125
dictionary['b'] = 458
dictionary['c'] = 100
print("updated dictionary", dictionary)
```

```
original dictionary {'a': 829, 'u': 1287}
updated dictionary {'a': 125, 'u': 1287, 'b': 458, 'c': 100}
```

In [14]:

```
# 14. Merging two different dictionary.

def Merge(dictionary1, dictionary2):
    result = dictionary1 + dictionary2
    return result
dictionary1 = [78, 58, 748, 2528]
dictionary2 = [748, 102, 588, 120, 2015]
dictionary3 = Merge(dictionary1, dictionary2)
print(dictionary3)
```

```
[78, 58, 748, 2528, 748, 102, 588, 120, 2015]
```

In [ ]: