Data Analytics (Task-1)

March 9, 2024

[1]:
```
# Creating a list
my_list = [2,3,4,5,6]
```

[2]:
```
# Adding an element to the list
my_list.append(7)
my_list.insert(0,1)
```

[4]:
```
# Removing an element from the list
my_list.remove(5)
del my_list[2]
```

[5]:
```
# Modifying an element in the list
my_list[1] = 9
```

[11]:
```
print("Updated list:", my_list)
```

```
Updated list: [1, 9, 4, 6, 7]
```

[14]:
```
# Creating a dictionary
my_dict = {'name':'Alex','age':50,'state':'Maharashtra'}
```

[16]:
```
# Adding a key-value pair in the dictionary
my_dict['qualification'] = 'Degree'
my_dict.update({'Marital Status' : 'Single'})
my_data = {'city' : 'Bangalore'}
my_dict |= my_data
```

[17]:
```
# Removing a key-value pair in the dictionary
del my_dict['state']
my_dict.pop('age')
```

[17]:
```
50
```

[18]:
```
# Modifying a value in the dictionary
my_dict['qualification'] = 'Bachelor Degree'
```

[19]:
```
print("Updated dictionary:", my_dict)
```

```
Updated dictionary: {'name': 'Alex', 'qualification': 'Bachelor Degree',
'Marital Status': 'Single', 'city': 'Bangalore'}
```

[20]:
```
# Creating a set
my_set = {'apple','banana','cherry'}
my_data = {'pineapple','mango','papaya'}
```

[21]:
```
# Adding an element to the set
my_set.add('orange')
my_set.update(my_data)
```

[22]:
```
# Removing an element from the set
my_set.remove('cherry')
my_set.discard('papaya')
```

[23]:
```
# Modifying an element in the set
my_set.discard('mango')
my_set.add('guava')
```

[24]:
```
print("Updated set:", my_set)
```

```
Updated set: {'orange', 'pineapple', 'apple', 'guava', 'banana'}
```

[ ]: