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Assignment No.: 02(2.3)

Assignment Title: Develop programs to learn different types of structures (list, dictionary, tuples) in python

**Code:**

**2.3Dictionary:**

**2.3.1 Create and display Dictionary in python**

# Creating an empty Dictionary  
Dict = {}  
print("Empty Dictionary: ")  
print(Dict)

#creating a dictionary

#with dict() method

Student= dict ({1:'Gayatri',2:'dipika',3:'komal',4:'jayashree',5:'mansi'})

print("\n print dictionary with the use of dict():")

print(Student)

#creating Dictionary

Student\_List ={1:'Gayatri',2:'dipika',3:'komal',4:'jayashree',5:'mansi'}

print(Student\_List)

**Output:**

Empty Dictionary

{}

print dictionary with the use of dict():

{1: 'Gayatri', 2: 'dipika', 3: 'komal', 4: 'jayashree', 5: 'mansi'}

{1: 'Gayatri', 2: 'dipika', 3: 'komal', 4: 'jayashree', 5: 'mansi'}

**2.3.2 Adding dictionary values**

# Adding new item in Dictionary

Student\_List = {1:'Gayatri',2:'dipika',3:'komal',4:'jayashree',5:'mansi'}

print(Student\_List)

Student\_List[6] ="Shital"

print(Student\_List)

**Output:**

{1: 'Gayatri', 2: 'dipika', 3: 'komal', 4: 'jayashree', 5: 'mansi'}

{1: 'Gayatri', 2: 'dipika', 3: 'komal', 4: 'jayashree', 5: 'mansi', 6: 'Shital'}

**2.3.3 Accessing Values in Dictionary:**

#Accesing values in dictionary

Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

x=Student\_list[1]

print(x)

**Output:** komal

**2.3.4 Print Dictionary using Loop**

#print dictionary using loop

Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'

for x in Student\_list:

print(x)

**Output:**1

2

3

4

5

**2.3.5 Nested Dictionary**

# Nested Dictionary

Student\_list={"Student1":{'no':1,'name':'komal'},

"Student2":{'no':2,'name':'dipika'},

"Student3":{'no':3,'name':'Gayatri'}

}

print(Student\_list)

**Output:**

{'Student1': {'no': 1, 'name': 'komal'}, 'Student2': {'no': 2, 'name': 'dipika'}, 'Student3': {'no': 3, 'name': 'Gayatri'}}

**2.3.6 Updating Dictionary**

#Updating Dictionary

Student\_list={"Student1":{'no':1,'name':'Gayatri'}}

Student\_list.update({'gender':'Female'})

print(Student\_list)

**Output:** {'Student1': {'no': 1, 'name': 'Gayatri'}, 'gender': 'Female'}

**2.3.7 Delete Dictionary Elements**

#Delete dictionary elements

Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

del Student\_list[3]

print("The dictionary after remove is : ",Student\_list)

**Output:** The dictionary after remove is : {1: 'komal', 2: 'sakshi', 4: 'Dipika', 5: 'gayatri'}

**2.3.7 Built-in Dictionary methods / functions**

**1.clear():**

# 1)clear

Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

Student\_list.clear()

print("Cleared Dictionary:",Student\_list)

**Output:** Cleared Dictionary: {}

**2. len():**Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

print("Length of given Dictionary is",len(Student\_list))

**Output:** Length of given Dictionary is 5

**3.pop():*#****3)pop()*car = {  
"brand": "Ford",  
"model": "Mustang",  
"year": 1964  
}  
car.pop("model")  
print(car)

**Output:**{'brand': 'Ford', 'year': 1964}

**4. popitem():**

car = {  
"brand": "Ford",  
"model": "Mustang",  
"year": 1964  
}  
car.popitem()  
print(car)

**Output:** {'brand': 'Ford', 'model': 'Mustang'}

**5. keys():** Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

x=Student\_list.keys()

**Output:** dict\_keys([1, 2, 3, 4, 5])

**6. values():**Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

x=Student\_list.values()

print(x)

**Output:** dict\_values(['komal', 'sakshi', 'lina', 'Dipika', 'gayatri'])

**7. items():**Student\_list={1:'komal',2:'sakshi',3:'lina',4:'Dipika',5:'gayatri'}

x=Student\_list.items()

**print(x)**

**Output:** dict\_items([(1, 'komal'), (2, 'sakshi'), (3, 'lina'), (4, 'Dipika'), (5, 'gayatri')])