**Ex 1:**

1. person = {  
 "Name": "Alice",  
 "Age": "25",  
 "City": "New York"  
 }

2. print(person)

**Ex 2:**

1. print(person["City"])

**Ex 3:**

1. person["email"] = "alice@example.com"

2. person["Age"] = "26"

3. print(person)

**Ex 4:**

1. person.\_\_delitem\_\_("City")

2. print(person)

**Ex 5:**

1. if "email" in person:

print("Yes")

else:

print("No")

2. if "phone" in person:

print("Yes")

else:

print("No")

**Ex 6:**

1. for i in person:  
 print(i+":"+person[i])

2. for i in person.keys():  
 print(i)

3. for i in person.values():  
 print(i)

**Ex 7:**

1. employees = {  
 101: {"name": "Bob", "job": "Engineer"},  
 102: {"name": "Sue", "job": "Designer"},  
 103: {"name": "Tom", "job": "Manager"}  
 }

2. print(employees[102])

3. employees[104] = {"name": "Linda", "job": "HR"}

4. print(employees)

**Ex 8:**

1. dict = {x: x\*\*2 for x in range(1,6)}

2. print(dict)

**Ex 9:**

1. dict1 = {"a": 1, "b": 2}  
 dict2 = {"c": 3, "d": 4}

2. dict1.update(dict2)

print(dict1)

**Ex 10:**

1. dict = {"a": 1, "b": 2, "c": 3}

2. print(dict.get("b")

3. print(dict.get("d",0))

**Ex 11:**

1. keys = ["name", "age", "city"]  
 values = ["Eve", 29, "San Francisco"]

2. dicts = dict(zip(keys,values))

3. print(dicts)

**Ex 12:**

1. sentence = "the quick brown fox jumps over the lazy dog the fox"

ls = sentence.split(" ")

dic = {}

for i in ls:

if i not in dic:

dic[i] = 0

dic[i] += 1

print(dic)