

# Python Assignment — Dictionaries Practice

## Q1 — Basic Dictionary Creation

Create a dictionary called student with keys: name, age, course, city. Print each value.

```
student = {  
    "name": " ",  
    "age": " ",  
    "course": " ",  
    "city": " "  
}
```

## Q2 — Adding & Updating Values

```
car = {  
    "brand": "Toyota",  
    "model": "Corolla",  
    "year": 2018  
}
```

Add color='White', update year to 2022 and print dictionary.

## Q3 — Loop Through Dictionary

```
person = {  
    "name": "Ali",  
    "age": 25,  
    "city": "Karachi"  
}
```

Print keys and values using loop.

## Q4 — Count Frequency of Numbers

```
numbers = [1,2,2,3,3,3,4,4,4,4]
```

Create frequency dictionary.

## Q5 — Word Counter

Take sentence input and count word frequency.

## Q6 — Student Marks & Average

```
marks = {"Math":80, "English":70, "Physics":90}
```

Calculate total and average.

## Q7 — Highest Scoring Student

```
students = {  
    "Ali":85,  
    "Sara":92,  
    "Ahmed":78,  
    "Zara":95  
}
```

Find highest scoring student.

## Q8 — Merge Dictionaries

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

Merge and print result.

## Q9 — Mini Project: Contact Book

Add 3 contacts, search by name, print phone or Contact not found.