

## Corrected Coding Answers and Explanation - Python Dictionaries

### Explanation: dict.get(key) vs dict[key]

- dict[key] raises a KeyError if the key is NOT found in the dictionary.
- dict.get(key) returns None (or a default value if provided) if the key is NOT found.

Example:

```
mydict = {"name": "Ali"}
print(mydict["name"])      # OK, returns "Ali"
print(mydict.get("name"))  # OK, returns "Ali"
print(mydict.get("age"))   # OK, returns None
print(mydict["age"])       # Error: KeyError: 'age'
```

### Correct Coding Answers

23. Create student dictionary

```
student = {"name" : "john", "age" : 25, "grade": "A"}
print(student)
```

24. Function to return keys with numeric values

```
def get_numeric_keys(d):
    return [k for k, v in d.items() if isinstance(v, (int, float))]
```

25. Create dictionary from two lists

```
keys = ["name", "age", "gender"]
values = ["Ali", 25, "Male"]
mydict = dict(zip(keys, values))
```

26. Count word frequencies using dictionary

```
words = ["apple", "banana", "apple", "orange", "banana", "apple"]
counter = {}
for word in words:
    counter[word] = counter.get(word, 0) + 1
print(counter)
```

27. Increase fruit prices by 10%

```
mydict = {"apple": 5, "orange": 4, "banana": 2, "cherry": 3, "mango": 6}
for fruit in mydict:
    mydict[fruit] *= 1.10
```

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```
print(mydict)
```

28. Swap dictionary keys and values

```
def swap_dict(d):  
    return {v: k for k, v in d.items()}
```

29. Key with max value

```
data = {"a": 10, "b": 20, "c": 30}  
max_key = max(data, key=data.get)  
print(max_key)
```

30. Extract names from nested dictionary

```
def extract_names(nested):  
    return [info["name"] for info in nested.values()]
```