Assignment-3

```python
# 1
students = {"Alice": 85, "Bob": 92, "Charlie": 78, "David": 90, "Eva": 88}
print(students.keys())
print(students.values())
```

```python
# 2
def char_frequency(s):
    freq = {}
    for c in s:
        freq[c] = freq.get(c, 0) + 1
    return freq
```

```python
# 3
people = {"Alice": 30, "Bob": 25, "Charlie": 35, "David": 35}
max_age = max(people.values())
oldest = [name for name, age in people.items() if age == max_age]
print(oldest)
```

```python
# 4
dict1 = {"a": 1, "b": 2}
dict2 = {"c": 3, "d": 4}
merged = {**dict1, **dict2}
print(merged)
```

```python
#5
squares = {x: x**2 for x in range(1, 11)}
print(squares)
```

```python
# 6
def invert_dict(d): #
    return {v: k for k, v in d.items()}
```

```python
# 7
students_marks = {
    "Alice": {"Math": 90, "English": 85},
    "Bob": {"Math": 78, "English": 88},
    "Charlie": {"Math": 85, "English": 80}
}
for student, marks in students_marks.items():
    avg = sum(marks.values()) / len(marks)
    print(f"{student}: {avg}")
```

```python
# 8
def group_by_length(words):
    result = {}
    for word in words:
        l = len(word)
        result.setdefault(l, []).append(word)
    return result
```