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# Lab 9

1.
```
tuple = (1, 2, 3, 4, 5, 6)
list = ['One', tuple[1], 'III', 'hello', tuple[4], 'III*2']

print(list)
```

2. Kode :
```
x= a_set.intersection(b_set)
y= b_set.intersection(a_set)
print(x)
print(y)
```
Output :
```
{'had', 'coat', 'blue', 'red', 'colors'}
{'had', 'coat', 'blue', 'red', 'colors'}
```

Kode :
```
w= a_set.union(b_set)
v= a_set.union(a_set)
print(w)
print(v)
```
Output :
```
{'had', 'my', 'the', 'many', 'two', 'coat', 'blue', 'main', 'yellow', 'red', 'colors'}
{'had', 'the', 'many', 'coat', 'blue', 'yellow', 'red', 'colors'}
```

Kode :
```
t= a_set.difference(b_set)
u= b_set.difference(a_set)
print(t)
print(u)
```
Output :
```
{'the', 'yellow', 'many'}
{'my', 'two', 'main'}
```

Kode :

```
r= a_set.symmetric_difference(b_set)
s= b_set.symmetric_difference(a_set)
print(r)
print(s)
```

Output :

```
{'my', 'the', 'many', 'two', 'main', 'yellow'}
{'my', 'the', 'many', 'two', 'main', 'yellow'}
```

3. a.)

```
def merge_dicts(my_dict, your_dict):
    new_dict = {**my_dict, **your_dict}
    return new_dict

# Contoh
my_dict = {'nama': 'Faris', 'umur': 25}
your_dict = {'kota': 'Jambi', 'umur': 30}

merged_dict = merge_dicts(my_dict, your_dict)
print(merged_dict)
# {'nama': 'Faris', 'umur': 30, 'kota': 'Jambi'}
```

b.)

```
def update_my_dict(my_dict, your_dict):
    my_dict.update(your_dict)

# Contoh
my_dict = {'nama': 'Faris', 'umur': 25}
your_dict = {'kota': 'New York', 'umur': 30}

update_my_dict(my_dict, your_dict)
print(my_dict)
#{'name': 'Alice', 'age': 30, 'city': 'New York'}
```

4.

```python
my_dict = {'a': 15, 'c': 35, 'b': 20}

# a. print all the keys.
print("Keys:", my_dict.keys())
# Keys: dict_keys(['a', 'c', 'b'])

# b. print all the values
print("Values:", my_dict.values())
# Values: dict_values([15, 35, 20])

# c. print all the keys and values pairs.
print("Key-Value pairs:")
for key, value in my_dict.items():
    print(f"{key}: {value}")
# Output:
# a: 15
# c: 35
# b: 20

# d. print all the keys and values pairs in order
of key.
print("Key and values pairs key:")
for key in sorted(my_dict):
    print(f"{key}: {my_dict[key]}")
# Output:
# a: 15
# b: 20
# c: 35

# e. print all the keys and values pairs in order
of value.
print("Keys and values pairs by value:")
for key, value in sorted(my_dict.items(),
key=lambda item: item[1]):
    print(f"{key}: {value}")
# Output:
# a: 15
# b: 20
# c: 35
```