Review Phython Language

```
my_name = "Toy"
my_age = 33
```

```
print(my_name)
print(my_age)
```

```
Toy
33
```

```
print(1+1)
print(2*2)
print(5/5)
print(8-5)
```

```
2
4
1.0
3
```

```
# string $ fstring in Python
my_name = "Toy"
my_university = 'Kasetsart'

my_long_string = """This is a very long
This is very long
This is a Third line """
```

```
print(my_age, my_university, my_long_string)
```

```
33 Kasetsart This is a very long
This is very long
This is a Third line
```

```python
#frstring template
my_name = "Toy"
my_age = 33
text = f"my name is {my_name}, and I am {my_age} years old."


print(text)
```

```
my name is Toy, and I am 33 years old.
```

```python
# function designed for string (string methods)
text = "a duck walks into a bar"
```

```python
type(text)
```

```
str
```

```python
text.upper()
```

```
'A DUCK WALKS INTO A BAR'
```

```python
text.count("a")
```

```
4
```

```python
text2 = text.replace('walks','run')
print(text)
print(text2)
```

```
a duck walks into a bar
a duck run into a bar
```

```python
#list
shopping_list = ['egg', 'milk', 'bread']
print(shopping_list)
```

```
['egg', 'milk', 'bread']
```

```python
print(shopping_list[0:3])
```

```
['egg', 'milk', 'bread']
```

```
#list methof = append
shopping_list.append('orange juice')
print(shopping_list)
```

```
['egg', 'milk', 'bread', 'orange juice']
```

```
shopping_list.append('water bottle')
print(shopping_list)
```

```
['egg', 'milk', 'bread', 'orange juice', 'water bottle']
```

```
# list method .pop()
shopping_list.pop()
shopping_list
```

```
['egg', 'milk', 'bread', 'orange juice']
```

```
len(shopping_list)
```

```
4
```

```
# dictionary key-value pair
student = {
    "id" : 1,
    "name" : "Marry",
    "age" : 22,
    "movies" : ["Spider Man", "Thor", "Iron Man 3"]
}
```

```
student['movies'][2]
```

```
'Iron Man 3'
```

```
student['city'] = 'London'
student
```

```
{'id': 1,
 'name': 'Marry',
 'age': 22,
```

```
 'movies': ['Spider Man', 'Thor', 'Iron Man 3'],
 'city': 'London'}
```

```
#update Value
student['city'] = 'Manchester'
student
```

```
{'id': 1,
 'name': 'Marry',
 'age': 22,
 'movies': ['Spider Man', 'Thor', 'Iron Man 3'],
 'city': 'Manchester'}
```

```
# remove key-value
del student['city']
student
```

```
{'id': 1,
 'name': 'Marry',
 'age': 22,
 'movies': ['Spider Man', 'Thor', 'Iron Man 3']}
```

```
# user-drfined function
def hello(username):
    print("Hello! "+ username)
```

```
hello("Plume")
```

```
Hello! Plume
```

```
def my_sum(val1, val2):
    print(val1 + val2)

result = my_sum(5,15)
```

```
20
```

```
def my_sum(val1, val2):
    return(val1 + val2)

result = my_sum(5,15)
print(result)
```

OOP

Object Oriented Programing

```
class Dog:
    name = "Toy"
    age = 5
    color = "Brown"
    breed = "French Bulldog"
    # function (Dog method)
    def sitting(self):
        print("I am sitting now!")

    def hungry(self, food_name):
        print(f"I am hungry, I need {food_name}!")
```

```
my_dog = Dog()
type(my_dog)
```

```
__main__.Dog
```

```
my_dog.color
```

```
'Brown'
```

```
my_dog.sitting()
```

```
I am sitting now!
```

```
my_dog.hungry("Pizza")
```

```
I am hungry, I need Pizza!
```