Lab 6 - Class

Part A: Class

- Definition of objects of the same kind
- A template to define an object
- Consists of variables/attributes and functions/methods
- Example: Human class
 - o Variables: name, age, height, weight
 - Functions: sleep(), eat(String food), drink(String beverage)
- Sample program:

```
package lab6;
      class Human {//Human class
         private String name;
          Human(String name) {//constructor with parameter String name
             this.name = name;//assign value of "name" to global variable "name"
 ₩ 🗐
         void eat(String food) {//function "eat" with parameter String food
             System.out.println(name+" is eating "+food);//
10
<u>Q.</u> 📮
         void drink (String beverage) {//function "drink" with parameter String beverage
             System.out.println(name+" is drinking "+beverage);
14
15
     public class MainClass {
17 📮
        public static void main(String[] args) {
           Human june = new Human("June");
              Human john = new Human("John");
      Human jane = new Human("Jane");
 9
21
22
```

O What will be the output from the statement below?

```
june.eat("burger");
john.eat("pizza");
jane.eat("fried noodle");
jane.drink("coffee");
june.drink("Pepsi");
john.drink("orange juice");
```

Part B: Exercise

- 1. Write a class called Square with following requirements:
 - Variables: length
 - functions getPerimeter() and getArea()

```
The square with length of 5:
Perimeter: 20
Area: 25
The square with length of 7:
Perimeter: 28
Area: 49
```