Create package **com**

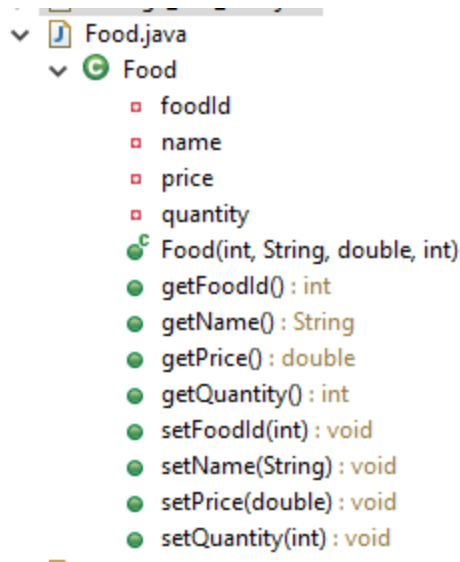Create a class **Food** with following attributes:
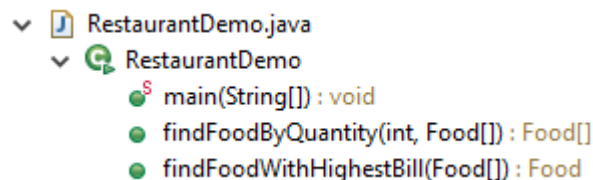
int – foodId
String - name
double – price
int - quantity
Make all the attributes private. Create corresponding getters and setters.
Create a constructor which takes all parameters in the above sequence. The constructor should set the value of attributes to parameter values inside the constructor.

- Food.java
  - Food
    - foodId
    - name
    - price
    - quantity
    - Food(int, String, double, int)
    - getFoodId() : int
    - getName() : String
    - getPrice() : double
    - getQuantity() : int
    - setFoodId(int) : void
    - setName(String) : void
    - setPrice(double) : void
    - setQuantity(int) : void

Create a class **RestaurantDemo** with main method and following method.

- RestaurantDemo.java
  - RestaurantDemo
    - main(String[]) : void
    - findFoodByQuantity(int, Food[]) : Food[]
    - findFoodWithHighestBill(Food[]) : Food

1) **findFoodByQuantity** - Create a method **findFoodByQuantity** which takes array of Food object and quantity as input parameter and returns array of Food whose quantity is greater than the passed quantity as parameter.

2) **findFoodWithHighestBill** - Create a method **findFoodWithHighestBill** which takes array of Food object and returns Food object which is having highest bill.
   Bill = quantity*price

Please ensure that class names, attribute names, method signature etc. is same as above. Else your code will fail and score would be zero.
Refer below sample main method and test the output. You can copy the same code in main method and test the implementation.
Next submit the code in iASCERT for evaluation. Also, upload the code in iON assignment activity.

TCS Internal

Sample main method:

```java
public static void main(String[] args) {
            // TODO Auto-generated method stub

            RestaurantDemo rd = new RestaurantDemo();
            Food r1 = new Food(12, "Biryani", 80, 5);
            Food r2 = new Food(13, "Ice Cream", 50, 9);
            Food r3 = new Food(14, "Gulab Jamun", 10, 15);
            Food r4 = new Food(15, "Chicken Labavdar", 150, 7);
            Food r5 = new Food(16, "Butter Naan", 20, 8);

            Food res[] = {r1,r2,r3,r4,r5};

            Food res1[] = rd.findFoodByQuantity(7,res);
            for(int j=0;j<res1.length;j++){
                    System.out.println(res1[j].getFoodId()+" "+res1[j].getName()+"
"+res1[j].getPrice()+" "+res1[j].getQuantity());
            }
            Food r = rd.findFoodWithHighestBill(res);
            System.out.println(r.getFoodId()+" "+r.getName()+" "+r.getPrice()+" "+r.getQuantity());

    }
```

Sample output:

13 Ice Cream 50.0 9
14 Gulab Jamun 10.0 15
16 Butter Naan 20.0 8
15 Chicken Labavdar 150.0 7