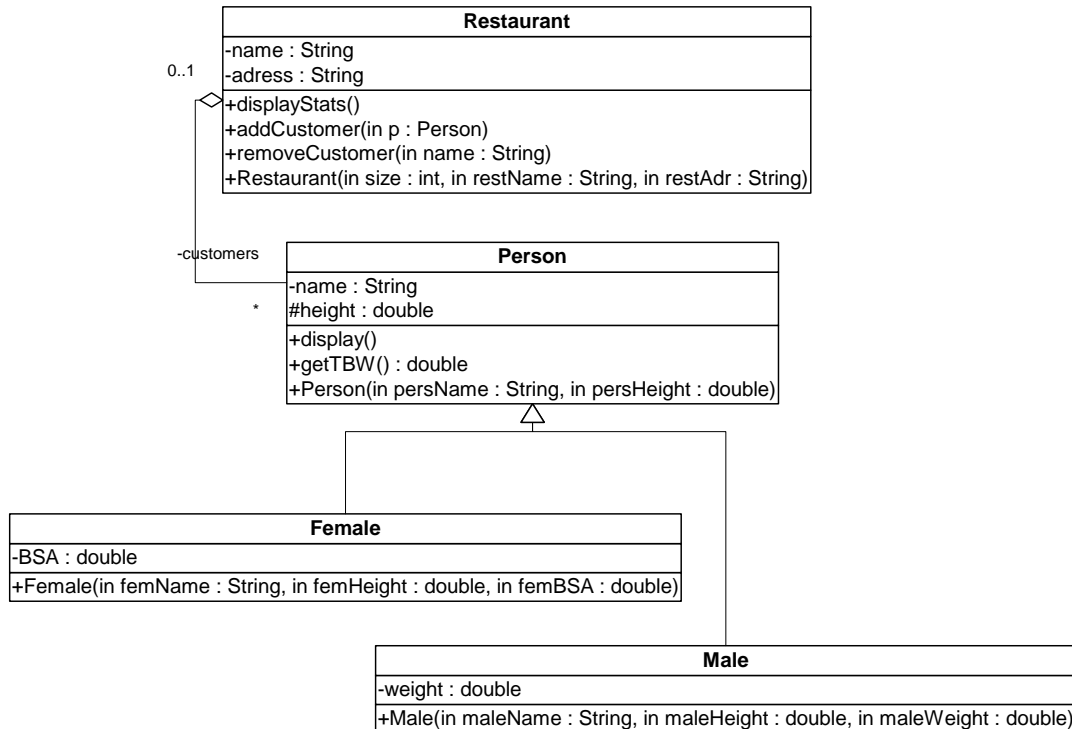


علوم الحاسب	113 عال	الاختبار الشهري الأول
أسم الطالب:	رقم الجامعي:	الشعبة:

Question 1

Given the following UML diagram:



The method *display()* of the class *Person* displays ONLY the name.

The method *getTBW()* return the value of the TBW (Total Body Water) of the person according to the following formulas:

- If the Person is a Male the $TBW = 0.34 * height + (0.18 * weight) - 35$
- If the Person is a female the $TBW = 27.48 * BSA - (0.001 * height) - 9.72$

Whereas the method *display()* of the classes *Male* and *Female* displays the *name*, the TBW, and either the *BSA* or the *weight* of the *Person* according to the class it belongs to.

The method *displayStats()* of the class *Restaurant* displays the *name* and the *address* of the restaurant and the number of males and the number of females that are customers of the restaurant.

The method *addCustomer()* adds a new customer to the restaurant.

The method *removeCustomer()* removes a customer according to his name.

1. Implement the class *Person* and the class *Male*.
2. Implement the class *Restaurant* without specifying the body of the methods *addCustomer()* and *removeCustomer()*.