# MaxFit Equipments(---RETIRED---)

**Grade settings**: Maximum grade: 100

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**Based on**: MaxFit Equipments(---RETIRED---)

Run: Yes Evaluate: Yes Automatic grade: Yes

**MaxFit Equipments** is an importer and supplier of world-class fitness equipment, with the region's top brand position. The resulting products are world-class in their quality and assuredly run with enhanced efficiency, providing long-lasting durability. They have now decided to use user data to automate the creation of bills. So they have asked you to work on a project.

## **Component Specification: CustomerInfo**

Type (Class)	Attributes	Methods
CustomerInfo	String customerId	Necessary getters, setters, and six arguments constructor are provided
	String customerName	as part of the code skeleton.
	String phoneNumber	
	String productName	
	int maxWeight	
	int dailyWorkoutHours	

# Functional Requirement 1: Extract the details and create an object of the CustomerInfo class.

Type (Class)	Methods	Responsibilities
UserInterface	public static CustomerInfo extractDetails(St ring customerDetails)	This method accepts <b>customerDetails</b> separa ted by a colon as an argument and should extract the properties of the <b>CustomerInfo</b> from the argument by parsing the <b>customerDetails</b> . Set these values to the <b>CustomerInfo</b> object and return this object.

Functional Requirement 2: Calculate the bill amount based on productName, maxWeight and dailyWorkoutHours".

Type (Class)	Methods	Responsibilities	
CustomerInfo	public	This method should	
	double calculateBillAmount()	calculate the bill amount	
		based on the	
		productName,maxWeight	
		and dailyWorkoutHours.	
		Condition:	
		- productName is case-	
		insensitive	
		- The product name	
		must be either one	
		of [''Tread	
		mill'',''Elliptical	
		Trainer'',''Air Bike''],	
		else return 0	
		- The maxWeight and	
		dailyWorkoutHours	
		should be in the range of	
		the below-mentioned	
		table. If not, then it should	
		return 0.	

**Note:** The class and methods should be declared as public, and all the attributes should be declared as private.

productName	maxWeight	dailyWorkoutHours	price	GST (in
				<b>%</b> )
Tread Mill	<=140	<=4	14999	
		<=8	19999	
		<=13	24999	
Elliptical Trainer	<=120	<=4	9599	
		<=8	12599	17
		<=13	14999	
Air Bike	<=140	<=4	4999	
		<=8	7499	
		<=13	9999	

Formula to calculate the bill amount in the CustomerInfo class

billAmount = Price + (Price \* GST)

[Find the price based on productName and dailyWorkoutHours using the above table]

## Example

## Sample input:

#### C041:Mark:8404529668:Air Bike:90:7

Here the productName is "Air Bike", maxWeight is 90 and dailyWorkoutHours is "7",

**billAmount** =7499 + (7499\*0.17) = 8773.83

The main method in the UserInterface class is excluded from the evaluation. You are free to write your own code in the main method to invoke the business methods to check its correctness.

#### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question.
- Ensure to provide the names for classes, attributes, and methods as specified in the question.
- Adhere to the code template, if provided.

### Sample Input/Output 1:

**Enter the Product Details** 

C001:Smith:9004529668:Tread Mill:90:5

Customer Id: C001

Customer Name: Smith

Phone Number: 9004529668

Product name: Tread Mill

Maximium Weight: 90

Daily Workout Hours: 5

Bill Amount: \$ 23398.83

## Sample Input/Output 2:

Enter the Product Details

C002:Rocky:8896540321:Air Bike:120:5

**Invalid Details** 

[Explanation: The maxWeight should be less than or equal to 100 for the productName Air Bike.]

## Sample Input/Output 3:

Enter the Product Details

C003:James:7896540321:Air Bike:100:14

**Invalid Details** 

[Explanation: The dailyWorkoutHours should be less than 13 for the productName Air Bike.]

## Sample Input/Output 4:

**Enter the Product Details** 

C063:Tom:8596540321:Stair Climber:100:14

Invalid Details

[Explanation: The productName must be one of the names displayed in the table.]

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2 - public class CustomerInfo {
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                                         private String customerId;
private String customerName;
private String phoneNumber;
private String productName;
private int maxWeight;
private int dailyWorkoutHours;
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                                        int dailyNorkoutHours) {
    super();
    this.customerId = customerId;
    this.customerId = customerId;
    this.phoneNumber = phoneNumber;
    this.phoneNumber = phoneNumber;
    this.maxNeight = maxNeight;
    this.maxNeight = maxNeight;
    this.dailyNorkoutHours = dailyNorkoutHours;
}
                                                                                                                                                                                                                                                                      public String getCustomerId() {
   return customerId;
                                         public void setCustomerId(String customerId) {
    this.customerId = customerId;
}
                                          public String getCustomerName() {
   return customerName;
                                         public void setCustomerName(String customerName) {
   this.customerName = customerName;
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                                   public String getProductName() {
    return productName;
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        UserInterfa
                                                                                                                                                                                                                                 0
                                   public void setProductName(String productName) {
    this.productName = productName;
                                  public int getMaxWeight() {
    return maxWeight;
}
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                                                                                                                                                                                                                                 •
                                   public void setMaxWeight(int maxWeight) {
    this.maxWeight = maxWeight;
}
                                   public int getDailyWorkoutHours() { 7 1 5 9 return dailyWorkoutHours;
                                   public void setDailyWorkoutHours(int dailyWorkoutHours) {
    this.dailyWorkoutHours = dailyWorkoutHours;
                                   public double calculateBillAmount() { 3 7 1 5 9
                                       double billamount =-1;
                                       // Fill the code here
                                                                                                                                                                                                                                а
                                    return billamount;
                                                                                                                                                                                                                                 63
```