

Week 3 Variable types - Class activity

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* Required

1. Name & Student Number *

Enter your answer

2. What variables and data types will you use for the following problem?

You have been asked for a calculator for a shop to calculate the total bill price after applying the standard VAT rate, 20%, to the price of the items purchased. *

itemPrice
vatRate
totalPrice

3. What variables and data types will you use for the following problem?

You have been asked to create a program for a restaurant to calculate the total bill price after adding a 15% service charge to the cost of the meals ordered. *

totalBillAmount
serviceChargeRate
mealPrice

4. What variables and data types will you use for the following problem?

You have been asked to develop a system for a car rental company to calculate the total rental cost after applying a daily rental rate and additional charges for mileage and insurance. *

dailyRate
rentalRate
milageStart
milageEnd
milageCharge
insurance
hireDate
totalRent

5. What variables and data types will you use for the following problem?

You have been asked to create a program for a grocery store to calculate the final price after applying discounts and adding a sales tax of 7% to the subtotal of the purchased items. *

itemPrice
subTotal
discount
salesTax
totalBill

6. What variables and data types will you use for the following problem?

You have been asked to design a program for a bookstore to calculate the total cost of books purchased after applying a member discount of 10% and a state tax of 5%. *

bookCost
totalBookCost
discount
salesTax
totalAmount

7. You have been asked to provide a solution to:

Create a calculator for a website that allows users to download music tracks at a cost of 0.99p. The user simply enters how many music tracks they wish to download and it calculates the total price.

What will be the variables and constant(s) and data types if any, for this solution? *

oneTrackPrice
amountInHand
downloadableTrack

8. You have been asked to provide a solution to:

–Calculate the total price for a user to pay on checking out the items in their shopping basket.

–The total price should include:

The sum of all items, but assume that the VAT rate has been included as part of an item price.

The delivery charge which is a flat rate of £3.99.

–The shop has also promoted a discount code called DISC10, which has a value of 10%, which shoppers may apply.

What will be the variables and and data types for this solution? *

itemPrice
subTotal
salesTax
deliveryCharge
totalBill

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