

Java Programming @ The department of Computer Science



Landscape Gardening Quote Task 1(b)

Requirements

Customers provide a landscape gardening company with a plan detailing lawns, concrete patios and water features. Unit material costs and installation times are as shown in the table. Customers who engage our landscape gardening company can specify two types of landscape gardening item (i) Type 1, items specified by length and width (lawns and patios) and (ii) Type 2, items specified by quantity (water features). Both have unit material costs and installation times associated with them. When generating quotes for customers, the landscape gardening company needs to determine the total material cost and installation time for each item. Create a collection of Java classes that will: (a) allows a user to input lawn and patio dimensions and the number of water features required (if any), (b) calculate individual total material costs, (c) calculate the installation times per item and (d) allow the user to save the quote to a file.

Work to be done	Unit cost of materials	Unit time to install
Laying a lawn	£15.50 per m ²	20 mins per m ²
Laying a concrete patio	£20.99 per m ²	20 mins per m ²
Installing a water feature (e.g. a fountain)	£150.00 each	60 mins each

Note: This exercise is based on an AQA HCSE Specimen Controlled Assessment.

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