



APC# - Application Programming with C# - Exam Paper

Duration: 60 minutes / Mark: 25

You are required to write a program computing tax of products.

Firstly, write abstract base class named Product. In Product class includes fields: product id, product name, product price, constructor with three parameters and write abstract method to calculate tax of product.

The prototype of computeTax() method is described below:

public abstract double computeTax();

Secondly, write class Book derived from Product class. In the Book class, override computeTax() method to compute tax of each Book. The tax of Book is calculated as:

Price *5/100;

Thirdly, write class Phone derived from Product class. In Phone class, override computeTax() method to compute tax of each Phone. The tax of Phone is calculated as:

Price * 10/100;

Lastly, write class to test computeTax() method. In this class declare and create Product array of size 5(three Books and two Phones) and compute total tax of Book and Phone using computeTax() method .

Marking:	
2.0	Writing Product class
6.0	[2x3] Marks for implementing classes: Book and Phone.
3.0	declaring and creating Product array
5.0	Computing tax of books
5.0	Computing tax of phones
3.0	Displaying result
1.0	Coding conversion
25.0	