VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 4_COD_Medium_Array of Structure

Attempt : 1
Total Mark : 10
Marks Obtained : 10

Section 1 : Coding

1. Problem Statement

Rani wants to purchase n different books from a bookstore.

Create a structure called book with the following details: book ID, book's name, author, publisher, number of copies, and price.

If the price of the book is more than 500 rupees, a 10% tax should be added. For all other cases, a 5% tax should be added. Calculate the total amount that she has to pay.

Answer

```
// You are using GCC
#include<stdio.h>
```

```c
struct book{
    int book_id;
    char book_name[100];
    char author_name[100];
    char publisher_name[100];
    int no_of_copies;
    float price;
};
int main(){
    int n;
    scanf("%d",&n);
    struct book b[n];
    for(int i = 0; i < n; i++){
        scanf("%d %s %s %s %d %f",&b[i].book_id,b[i].book_name,b[i].author_name,b[i].publisher_name,&b[i].no_of_copies,&b[i].price);
    }
    for(int i = 0; i < n; i++){
        if(b[i].price > 500){
            printf("%s %.2f\n",b[i].book_name,(b[i].price*1.10));
        }else{
            printf("%s %.2f\n",b[i].book_name,(b[i].price*1.05));

        }
    }
    return 0;
}
```

Status : Correct   *Marks : 10/10*