

## VIT - Vellore

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### BCSE102P\_Structured and Object Oriented Programming Lab\_VL2024250502365

#### VIT V\_Structured and OOP\_Lab 4\_COD\_Hard\_Array within Structure

Attempt : 1

Total Mark : 10

Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Write a program to create a structure DEP\_STORE and declare the variables as store\_name, store\_address, phone\_no. Create another structure STORE\_ITEM and declare the variables as item\_number, item\_name, available\_qty, item\_price.

Generate a report to display the Store Name, Store Address, and Phone number with the item name and its price. Calculate the total item value present in the store. Refer to the example below:

**Answer**

// You are using GCC

```
#include<stdio.h>
#include<string.h>
```

```
struct DEP_STORE{
    char store_name[50];
    char store_address[50];
    char phone_no[15];
};
```

```
struct STORE_ITEM{
    int item_number;
    char item_name[50];
    int available_qty;
    float item_price;
};
```

```
int main(){
    struct DEP_STORE d;
    struct STORE_ITEM s[10];
```

```
    scanf("%[^\\n]",d.store_name);
    scanf("%s",d.store_address);
    scanf("%s",d.phone_no);
    int n;
    scanf("%d",&n);
    getchar();
```

```
    for(int i = 0; i < n; i++){
        scanf("%d",&s[i].item_number);
        getchar();
        fgets (s[i].item_name, sizeof(s[i].item_name),stdin);
        int len = strlen(s[i].item_name);
        if(len > 0 && s[i].item_name[len-1] == '\\n'){
            s[i].item_name[len-1] = '\\n';
        }
        scanf("%d",&s[i].available_qty);
        scanf("%f",&s[i].item_price);
        getchar();
    }
```

```
    printf("Store Name: %s\\n",d.store_name);
    printf("Store Address: %s\\n",d.store_address);
    printf("Phone Number: %s\\n",d.phone_no);
```

```
    printf("Item Number\\tItem Name\\tAvailable Quantity\\nItem Price\\n");
```

```
float total = 0;

for(int i = 0; i < n; i++){
    printf("%d\t\t%s\t\t%d\t\t%.2f\n",s[i].item_number,s[i].item_name,s[i].available_qty,s[i].item_price);
    total += (s[i].available_qty * s[i].item_price);
}
printf("\nTotal Item Value: Rs. %.2f\n",total);
return 0;
}
```

**Status :** Correct

**Marks :** 10/10