JAVA LAB ASSESSMENT

Program

import java.util.Scanner;

interface accessories{

String name[] = new String[100];

int[] cost = new int[100];

void discount(int cost[]);

}

class Product{

String name[];

int cost[];

int len;

protected static int totalcost = 0;

Product(String[] name, int[] cost, int len){

for(int i=0;i<len;i++){

this.name[i] = name[i];

}

for(int i=0;i<len;i++){

this.cost[i] = cost[i];

}

}

void details(String name[], int cost[], int len){

System.out.print("Customer Details\n");

for(int i = 0; i < len; i++){

System.out.print("Name: " + this.name[i] + "\n");

System.out.print("Cost: " + this.cost[i] + "\n");

}

}

int total(int[] cost, int len){

for(int i=0;i<len;i++){

totalcost += cost[i];

}

return totalcost;

}

void discount(int amt){

System.out.print("You are offered 10% discount. Amount to be paid is " + String.valueOf(amt - amt\*0.1));

}

}

class Food extends Product{

String name[];

int cost[];

int len;

protected static int totalcost = 0;

Food(String[] name, int[] cost, int len){

for(int i=0;i<len;i++){

this.name[i] = name[i];

}

for(int i=0;i<len;i++){

this.cost[i] = cost[i];

}

}

void details(String name[], int cost[], int len){

System.out.print("Customer Details\n");

for(int i = 0; i < len; i++){

System.out.print("Name: " + this.name[i] + "\n");

System.out.print("Cost: " + this.cost[i] + "\n");

}

}

int total(int[] cost, int len){

for(int i=0;i<len;i++){

totalcost += cost[i];

}

return totalcost;

}

void discount(int amt){

System.out.print("You are offered 10% discount. Amount to be paid is " + String.valueOf(amt - amt\*0.1));

}

}

class Cosmetics extends Product{

String name[];

int cost[];

int len;

protected static int totalcost = 0;

Cosmetics(String[] name, int[] cost, int len){

for(int i=0;i<len;i++){

this.name[i] = name[i];

}

for(int i=0;i<len;i++){

this.cost[i] = cost[i];

}

}

void details(String name[], int cost[], int len){

System.out.print("Customer Details\n");

for(int i = 0; i < len; i++){

System.out.print("Name: " + this.name[i] + "\n");

System.out.print("Cost: " + this.cost[i] + "\n");

}

}

int total(int[] cost, int len){

for(int i=0;i<len;i++){

totalcost += cost[i];

}

return totalcost;

}

void discount(int amt){

System.out.print("You are offered 10% discount. Amount to be paid is " + String.valueOf(amt - amt\*0.1));

}

}

class Toys extends Product {

String name[];

int cost[];

int len;

protected static int totalcost = 0;

Toys(String[] name, int[] cost, int len){

for(int i=0;i<len;i++){

this.name[i] = name[i];

}

for(int i=0;i<len;i++){

this.cost[i] = cost[i];

}

}

void details(String name[], int cost[], int len){

System.out.print("Customer Details\n");

for(int i = 0; i < len; i++){

System.out.print("Name: " + this.name[i] + "\n");

System.out.print("Cost: " + this.cost[i] + "\n");

}

}

int total(int[] cost, int len){

for(int i=0;i<len;i++){

totalcost += cost[i];

}

return totalcost;

}

void discount(int amt){

System.out.print("You are offered 10% discount. Amount to be paid is " + String.valueOf(amt - amt\*0.1));

}

}

public class Customer{

public static void main(String... args){

Scanner sc = new Scanner(System.in);

Product obj[] = new Product[10];

Food obj1[] = new Food[10];

Cosmetics obj2[] = new Cosmetics[10];

Toys obj3 = new Toys[10];

while(true){

System.out.print("1. Purchase\n2. Exit\nEnter your choice: ");

int n = sc.nextInt();

if(n == 1){

System.out.print("Enter customer name: ");

String name = sc.next();

System.out.print("Enter the no of products to be purchased: ");

int n1 = sc.nextInt();

int cost[] = new int[10];

String proname[] = new String[10];

int ct = 0;

for(int k = 0; k < n1; k++){

System.out.print("Enter product name: ");

proname[ct] = sc.next();

System.out.print("Enter cost ");

cost[ct] = sc.nextInt();

}

obj1[ct] = new Food(proname, cost, n1);

obj1[ct].details(proname, cost, n1);

}

}

}

}

Output

