

## 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];
        }
    }
}
```

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    }
    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;

```

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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, nl);
                                }
                                }
                                }
}

```

## Output

```

1. Purchase
2. Exit
Enter your choice: 1
Enter customerId: 1
Enter number of products purchased: 2
1
Name of the product: idly
Price: 20
2
Name of the product: toys
Price: 160

Product Details
Id: 1
Name: idly
Amount: 20

Name: toys
Amount: 160

Tracnsaction Details
Actual amount to be paid is Rs.180
You're offered with a 25% Discount. So that you can pay Rs.135.0
1. Purchase
2. Exit
Enter your choice: 2

D:\Semester 5\Java Programming\Lab 10-01>

```