

1)

```
package e_commerce_system;
```

```
public class E_Commerce_system {
```

```
    public static void main(String[] args) {
```

```
        System.out.println("Welcome to the E_commerce  
System !");
```

```
        Customer cust = new Customer();
```

```
        ElectronicProduct e = new  
ElectronicProduct("samsung",1,1,"smartphone",599.99f);
```

```
        ClothingProduct c = new  
ClothingProduct("medium","cotton",2,"T_shirt",19.99f);
```

```
        BookProduct b = new BookProduct("O` Reilly","X  
Publications",3,"OOP",39.99f);
```

```
    Cart car = new Cart();  
    car.addproduct(e, c, b);  
    order o =new order();  
    o.setTotalprice(car.calculateprice());  
    o.setProducts(car.getProducts());  
    o.setCutomerId(cust.getCustomerId());  
    o.printOrderInfo();  
}  
  
}
```

```
package e_commerce_system;
```

```
public class product {
```

```
    int product_Id ;
```

```
    String name ;
```

```
    float price ;
```

```
    public product(int product_Id, String name, float price)  
{
```

```
        this.product_Id = product_Id;
```

```
        this.name = name;
```

```
        this.price = price;
```

```
    }
```

```
    public product() {
```

```
}
```

```
public int getProduct_Id() {
```

```
    return product_Id;
```

```
}
```

```
public void setProduct_Id(int product_Id) {
```

```
    this.product_Id = product_Id;
```

```
}
```

```
public String getName() {
```

```
    return name;
```

```
}
```

```
public void setName(String name) {
```

```
    this.name = name;
```

```
}
```

```
public float getPrice() {  
    return price;  
}
```

```
public void setPrice(float price) {  
    this.price = price;  
}
```

```
}
```

```
package e_commerce_system;
```

```
public class ElectronicProduct extends product {
```

```
    String brand ;
```

```
    int WarrantyPeriod ;
```

```
    public ElectronicProduct(String brand, int  
WarrantyPeriod, int product_Id, String name, float price)  
{
```

```
        super(product_Id, name, price);
```

```
        this.brand = brand;
```

```
        this.WarrantyPeriod = WarrantyPeriod;
```

```
    }
```

```
    public String getBrand() {
```

```
    return brand;  
}
```

```
public void setBrand(String brand) {  
    this.brand = brand;  
}
```

```
public int getWarrantyPeriod() {  
    return WarrantyPeriod;  
}
```

```
public void setWarrantyPeriod(int WarrantyPeriod) {  
    this.WarrantyPeriod = WarrantyPeriod;  
}
```

```
}
```

```
package e_commerce_system;
```

```
public class ClothingProduct extends product {
```

```
    String size , fabric ;
```

```
    public ClothingProduct(String size, String fabric, int  
product_Id, String name, float price) {
```

```
        super(product_Id, name, price);
```

```
        this.size = size;
```

```
        this.fabric = fabric;
```



```
}
```

```
public String getSize() {
```

```
    return size;
```

```
}
```

```
public void setSize(String size) {
```

```
    this.size = size;
```

```
}
```

```
public String getFabric() {
```

```
    return fabric;
```

```
}
```

```
public void setFabric(String fabric) {
```

```
    this.fabric = fabric;
```

```
}
```

```
}
```

```
package e_commerce_system;
```

```
public class BookProduct extends product {
```

```
    String author , publisher ;
```

```
    public BookProduct(String author, String publisher, int  
product_Id, String name, float price) {
```

```
        super(product_Id, name, price);
```

```
        this.author = author;
```

```
        this.publisher = publisher;
```

```
}
```

```
public String getAuthor() {
```

```
    return author;
```

```
}
```

```
public void setAuthor(String author) {
```

```
    this.author = author;
```

```
}
```

```
public String getPublisher() {
```

```
    return publisher;
```

```
}
```

```
public void setPublisher(String publisher) {
```

```
    this.publisher = publisher;
```

```
}
```

```
}
```

```
package e_commerce_system;
```

```
import java.util.Scanner;
```

```
public class Customer {
```

```
    Scanner input=new Scanner(System.in);
```

```
    int customerId;
```

```
    String name , address ;
```

```
    public Customer() {
```

```
        System.out.println("please enter your Id");
```

```
        customerId = input.nextInt();
```

```
customerId=Math.abs(customerId);
```

```
    System.out.println("please enter your name");
```

```
    name =input.next();
```

```
    System.out.println("please enter your address");
```

```
    address = input.next();
```

```
}
```

```
public int getCustomerId() {
```

```
    return customerId;
```

```
}
```

```
public void setCustomerId(int customerId) {
```

```
    this.customerId = customerId;
```

```
}
```

```
public String getName() {  
    return name;  
}
```

```
public void setName(String name) {  
    this.name = name;  
}
```

```
public String getAddress() {  
    return address;  
}
```

```
public void setAddress(String address) {  
    this.address = address;  
}
```

```
}
```

```
package e_commerce_system;
```

```
import java.util.Scanner;
```

```
public class Cart {
```

```
    Scanner input = new Scanner(System.in);
```

```
    int customerId , nproduct ;
```

```
    product[]products;
```

```
    public Cart() {
```

```
    }
```

```
    public void addproduct(ElectronicProduct obj1  
,ClothingProduct obj2 ,BookProduct obj3){
```

```
System.out.println("How many products you want  
to add to your cart");
```

```
nproduct = input.nextInt();
```

```
products = new product[nproduct];
```

```
for(int i=0 ; i<nproduct ; i++){
```

```
System.out.println("which product would you like to  
add? "+" 1- "+obj1.name+ " 2- "+obj2.name+ " 3-  
"+obj3.name);
```

```
int num = input.nextInt();
```

```
switch(num){
```

```
case 1 :
```

```
products[i]=obj1;
```

```
break;
```

```
case 2 :
```

```
products[i]=obj2;
```

```
break;
```

```
case 3 :
```

```
products[i]=obj3;
```



```
break;
```

```
default:
```

```
    System.out.println("this number is not  
available");
```

```
}
```

```
}
```

```
}
```

```
public void removeproduct(){
```

```
}
```

```
public float calculateprice(){
```

```
float p =0 ;
```

```
for(int i=0; i<products.length;i++){
```

```
    p+= products[i].price;
```

```
}
```

```
return p;
```

```
}
```

```
public void placeorder(){
```

```
}
```

```
public product[] getProducts() {
```

```
    return products;
```

```
}
```

```
public void setProducts(product[] products) {
```

```
    this.products = products;
```

```
}
```

```
}
```

```
package e_commerce_system;

import java.util.Scanner;

public class order {

    Scanner input = new Scanner(System.in);

    int cutomerId,orderId ;

    product[]products;

    float totalprice;

    public void printOrderInfo(){

        System.out.println("your total is
$" + getTotalprice() + " Would you like to place the order ?
"+"1- yes "+"2- no");

        int num= input.nextInt();

        switch(num){

            case 1 :
```

```
        System.out.println("Here is your order
summary: \n order Id : "+num +" \n customer id :
"+getCutomerId()+" \n products:") ;

        for(int i = 0 ; i<products.length;i++){

            System.out.println(products[i].name + " -
$" +products[i].price);

        }

        System.out.println("Total price:
$" +getTotalprice());

        break;

    case 2:

        System.out.println("THANKS");

        break;

    }

}
```

```
public float getTotalprice() {

    return totalprice;
```

```
}
```

```
public void setTotalprice(float totalprice) {  
    this.totalprice = totalprice;  
}
```

```
public product[] getProducts() {  
    return products;  
}
```

```
public void setProducts(product[] products) {  
    this.products = products;  
}
```

```
public int getCutomerId() {  
    return cutomerId;  
}
```

```
public void setCutomerId(int cutomerId) {  
    this.cutomerId = cutomerId;  
}
```

```
public int getOrderId() {  
    return orderId;  
}
```

```
public void setOrderId(int orderId) {  
    this.orderId = orderId;  
}
```

```
}
```

