```
package javaapplication28 ;                //javaapplication28
import javax.swing.JOptionPane;
import java.util.Scanner;
public class JavaApplication28 {



    public static void main(String[] args) {
        //new JavaApplication28();
        String names=JOptionPane.showInputDialog("enter your name");
        JOptionPane.showMessageDialog(null,"hello" +names);
        int customersid=Integer.parseInt(JOptionPane.showInputDialog("enter your customerid"));
        JOptionPane.showMessageDialog(null, "your"+customersid);
        int sizes=Integer.parseInt(JOptionPane.showInputDialog("enter your size"));
        JOptionPane.showMessageDialog(null, "your"+sizes);
        String address=JOptionPane.showInputDialog("enter your address11");
        JOptionPane.showMessageDialog(null,"hello" +address);
        Scanner i=new Scanner(System.in);
        System.out.println("enter the number of products you want to enter");
        //int size=i.nextInt();
        System.out.println("enter your customerid");
        //int customerid=i.nextInt();
        System.out.println("enter your name");
        //String name=i.next();
```

```
            System.out.println("enter your address");
            //String address=i.next();
            Customer customer=new Customer(customersid,names,address);
            Cart c=new Cart(customersid,sizes);
            c.nproducts=sizes;
            //System.out.println("the length of array"+c.prod.length+"the size is"+c.nproducts);
            ClothingProduct p1=new ClothingProduct("XXL","silk",2,"t_shirt",19.99);
            ElectronicProduct p2=new ElectronicProduct("samsung",1,1,"smartphone",599.99);
            BookProduct p3=new BookProduct("O Reily","XPublications",3,"OOP",39.99);
            Product[] prods=c.placeorder();
            double totalprice=c.calculateprice(prods);
            Order order=new Order(customersid,1,totalprice);
           order.printorderinfo(prods);
        }

}

package javaapplication28;

public class Product {
        protected int productid;
        protected String productname;
        protected double price;

        public Product(int productid, String productname, double price) {
```

```
        this.productid = productid;
        this.productname = productname;
        this.price = price;
}

public int getProductid() {
        return productid;
}

public void setProductid(int productid) {
        this.productid = productid;
}

public String getName() {
        return productname;
}

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

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

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

}

package javaapplication28;

public class ElectronicProduct extends Product {
    private String brand;
    private int warryperiod;

    public ElectronicProduct(int productid, String productname, double price) {
        super(productid, productname, price);
    }

    public ElectronicProduct(String brand, int warryperiod, int productid, String productname, double
price) {
        super(productid, productname, price);
        this.brand = brand;
        this.warryperiod = warryperiod;
    }

    public String getBrand() {
        return brand;
```

```
    }

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

    public int getWarryperiod() {
        return warryperiod;
    }

    public void setWarryperiod(int warryperiod) {
        this.warryperiod = warryperiod;
    }

}
```

```
package javaapplication28;

public class ClothingProduct extends Product {
    private String size;
    private String fabric;

    public ClothingProduct(int productid, String productname, double price) {
        super(productid, productname, price);
    }
```

```
public ClothingProduct(String size, String fabric, int productid, String productname, double price) {
        super(productid, productname, 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;
}
```

```
}
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 */
package javaapplication28;

/**
 *
 * @author dell
 */
public class BookProduct extends Product{
    private String author,publisher;

    public BookProduct(int productid, String productname, double price) {
        super(productid, productname, price);
    }

    public BookProduct(String author, String publisher, int productid, String productname, double price) {
        super(productid, productname, 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;
    }

}
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 */
package javaapplication28;

/**
```

```
 *
 * @author dell
 */
public class Customer {
	private int courseid;
	private String name,address;

	public Customer(int courseid, String name, String address) {
		this.courseid = courseid;
		this.name = name;
		this.address = address;
	}

	public int getCourseid() {
		return courseid;
	}

	public void setCourseid(int courseid) {
		this.courseid = courseid;
	}

	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 javaapplication28;
import javax.swing.JOptionPane;
import java.util.Scanner;
public class Cart {
	private int customerid;
	private int nproducts=4;
	Product[] prod;

	public Cart(int customerid, int nproducts) {
		this.customerid = customerid;
```

```
        this.nproducts = nproducts;

}

public int getCustomerid() {
        return customerid;
}

public void setCustomerid(int customerid) {
        this.customerid = customerid;
}

public int getNproducts() {
        return nproducts;
}

public void setNproducts(int nproducts) {
        this.nproducts = nproducts;
}

public Product[] getProd() {
        return prod;
}
```

```
public void setProd(Product[] prod) {
        this.prod = prod;
}
public void addproduct(Product p,Product[] prods){
      for(int i=0;i<prods.length;i++){
              if(prods[i]==null){
              prods[i]=p;
              break;
              }

        }

}
public void removeproduct(Product p,Product[] prods){
        boolean flag=true;
        for(int i=0;i<prods.length;i++){
              if(prods[i]==p){
                   flag=true;
              }
              else{
                    System.out.println("this product doesnot exist in the cart");
                    flag=false;
                    break;
              }
        }
```

```
            Product[] newprod=new Product[prods.length-1];
            int m=0;
            if(flag){
            for(int i=0;i<newprod.length;i++){
                  if(newprod[m]!=prods[i]){
                        newprod[m]=prods[i];
                        m++;
                  }
                  else{
                       continue;
                  }
            }

      }
}
      public double calculateprice(Product[] prods){
            double prices=0;
            for(int i=0;i<prods.length;i++){
                  prices+=prods[i].getPrice();
            }
            return prices;

      }
      public Product[] placeorder(){
            prod=new Product[nproducts];
```

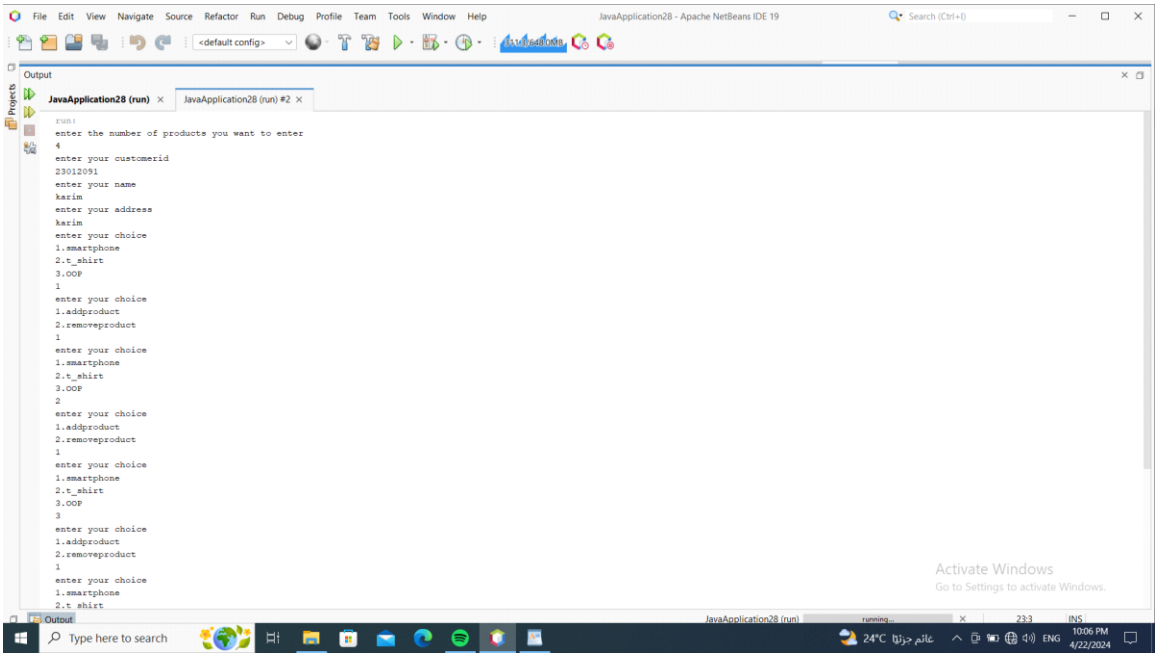
```
ClothingProduct p1=new ClothingProduct("medium","coton",2,"smartphone",19.99);
  ElectronicProduct p2=new ElectronicProduct("samsung",1,1,"smartphone",599.99);
BookProduct p3=new BookProduct("OReily","XPublication",3,"OOP",39.99);
Scanner input=new Scanner(System.in);
int choice2,choice;
//for(int j=0;j<4;j++){
for(int j=0;j<prod.length;j++){
    //System.out.println("trial number "+j);
    System.out.println("enter your choice\n1.smartphone\n2.t_shirt\n3.OOP");
  choice=Integer.parseInt(JOptionPane.showInputDialog("enter your
choice\n1.smartphone\n2.t_shirt\n3.OOP"));
JOptionPane.showMessageDialog(null, "you chose product number :"+choice);

  switch (choice){
    case 1:
        System.out.println("enter your choice\n1.addproduct\n2.removeproduct");
        choice2=Integer.parseInt(JOptionPane.showInputDialog("enter your
choice\n1.addproduct\n2.removeproduct"));
JOptionPane.showMessageDialog(null, "you added :"+choice);
        switch (choice2){
          case 1:
            addproduct(p1,prod);
            break;
          case 2:
            removeproduct(p1,prod);
        break;
```

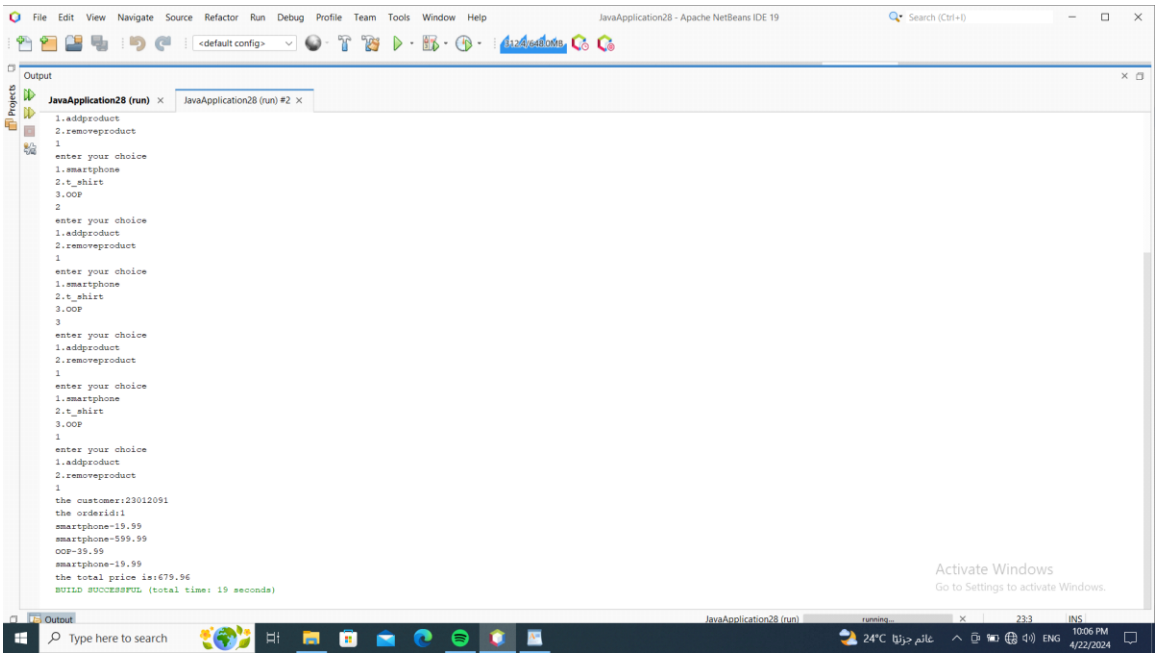
```
                    }
                    break;
                case 2:
                    System.out.println("enter your choice\n1.addproduct\n2.removeproduct");
                    choice2=Integer.parseInt(JOptionPane.showInputDialog("enter your
choice\n1.addproduct\n2.removeproduct"));
        JOptionPane.showMessageDialog(null, "you added :"+choice);
                    switch (choice2){
                        case 1:
                            addproduct(p2,prod);
                            break;
                        case 2:
                            removeproduct(p2,prod);
                            break;
                    }
                    break;
                        case 3:
                            System.out.println("enter your
choice\n1.addproduct\n2.removeproduct");
                    choice2=Integer.parseInt(JOptionPane.showInputDialog("enter your
choice\n1.addproduct\n2.removeproduct"));
          JOptionPane.showMessageDialog(null, "you added :"+choice);
                    switch (choice2){
                        case 1:
                            addproduct(p3,prod);
                            break;
                        case 2:
```

```
                                removeproduct(p3,prod);
                                break;
                        }
                        break;
                }
        }
                return prod;

}}
```

```
package javaapplication28;
import javax.swing.JOptionPane;
public class Order {
        int customerid;
        int orderid;

        double totalprice;

        public Order(int customerid, int orderid, double totalprice) {
                this.customerid = customerid;
                this.orderid = orderid;
                this.totalprice = totalprice;
        }

        public void printorderinfo(Product[] prod){
```

```
            System.out.println("the customer:"+customerid);
            System.out.println("the orderid:"+orderid);

            for(int i=0;i<prod.length;i++){
                System.out.println(prod[i].getName()+"-"+prod[i].getPrice());
JOptionPane.showMessageDialog(null,prod[i].getName()+"-"+prod[i].getPrice() );
            }
            JOptionPane.showMessageDialog(null, "the total price is"+totalprice);
            System.out.println("the total price is:"+totalprice);
        }
}
```




File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
JavaApplication28 - Apache NetBeans IDE 19
Search (Ctrl+I)
<default config>
Output
JavaApplication28 (run)
JavaApplication28 (run) #2
1.addproduct
2.removeproduct
1
enter your choice
1.smartphone
2.t_shirt
3.OOP
2
enter your choice
1.addproduct
2.removeproduct
1
enter your choice
1.smartphone
2.t_shirt
3.OOP
3
enter your choice
1.addproduct
2.removeproduct
1
enter your choice
1.smartphone
2.t_shirt
3.OOP
1
enter your choice
1.addproduct
2.removeproduct
1
the customer:23012091
the orderid:1
smartphone-19.99
smartphone-599.99
OOP-39.99
smartphone-19.99
the total price is:679.96
BUILD SUCCESSFUL (total time: 19 seconds)
Activate Windows
Go to Settings to activate Windows.
Output
JavaApplication28 (run)
running...
23:3
INS
Type here to search
24°C عالم جزئيا
ENG
10:06 PM
4/22/2024