**package** constructor;

**public** **class** Product1 {

**public** **class** Product {

//declare instance variables

**int** pid;

String pname;

**float** price;

**int** stock;

//introduce constructor (default)

Product()

{

System.***out***.println("Default Constructor..");

}

//2 parameterized constructor

Product(**int** pid,String pname)

{

**this**();

**this**.pid=pid;

**this**.pname=pname;

}

//3 parameterized constructor

Product(**int** pid,String pname,**float** price)

{

**this**(pid,pname);

//this.pid=pid;

//this.pname=pname;

**this**.price=price;

}

//4 parameterized constructor

Product(**int** pid,String pname,**float** price, **int** stock)

{

**this**.pid=pid;

**this**.pname=pname;

**this**.price=price;

**this**.stock=stock;

}

//copy constructor

Product(Product p)

{

**this**.pid=p.pid;

**this**.pname=p.pname;

**this**.price=p.price;

**this**.stock=p.stock;

}

//introduce a method to expose the data

**public** **void** showProduct()

{

System.***out***.println(pid+" "+pname+" "+price+" "+stock);

}

}

}

**package** constructor;

**import** java.util.Scanner;

**public** **class** ProductList {

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

//creating an object

//Product p1 = new Product();

//calling a 2 Para cons

Product p2 = **new** Product(1101,"Laptop");

//calling a 3 Para cons

Product p3 = **new** Product(1102,"Iphone",700);

//calling a 4 para cons

Product p4 = **new** Product(1103,"Keyboard",100,25);

//copy the data from existing object

Product p5=**new** Product(p4);

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the Product type you want to see..");

**int** ptype=sc.nextInt();

//exposing the object data

//p1.showProduct();

**if**(ptype==1)

{

p2.showProduct();

}

**else** **if**(ptype==2)

{

p3.showProduct();

}

**else** **if**(ptype==3)

{

System.***out***.println("Calling copy constructor..");

p5.showProduct();

}

// p2.showProduct();

// p3.showProduct();

// p4.showProduct();

}

}

package oopsprograms;

public class StaticBlockExample {

int pid;

String pname;

static String category;

//introduce instance method

public void showDetails()

{

System.out.println(pid+" "+pname);

}

//introduce static block

//static block is used to initialize the static variables

//static block will get execute before main method (high priority)

static

{

System.out.println("Show Product Category..");

category="Electronics";

}

//introduce static methods

public static String showCategory()

{

return category;

}

public static void main(String[] args) {

System.out.println("Main Method Block..");

StaticBlockExample obj = new StaticBlockExample();

obj.pid=1101;

obj.pname="Laptop";

obj.showDetails();

System.out.println(StaticBlockExample.showCategory());

}

}