20MCA132 OBJECT ORIENTED PROGRAMMING LAB

ASSIGNMENT-1

SUBMITTED BY

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SUBMITTED TO ,

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1. Define a class ‘product’ with data members pcode, pname and price. Create 3 objects of the class and find the product having the lowest price.

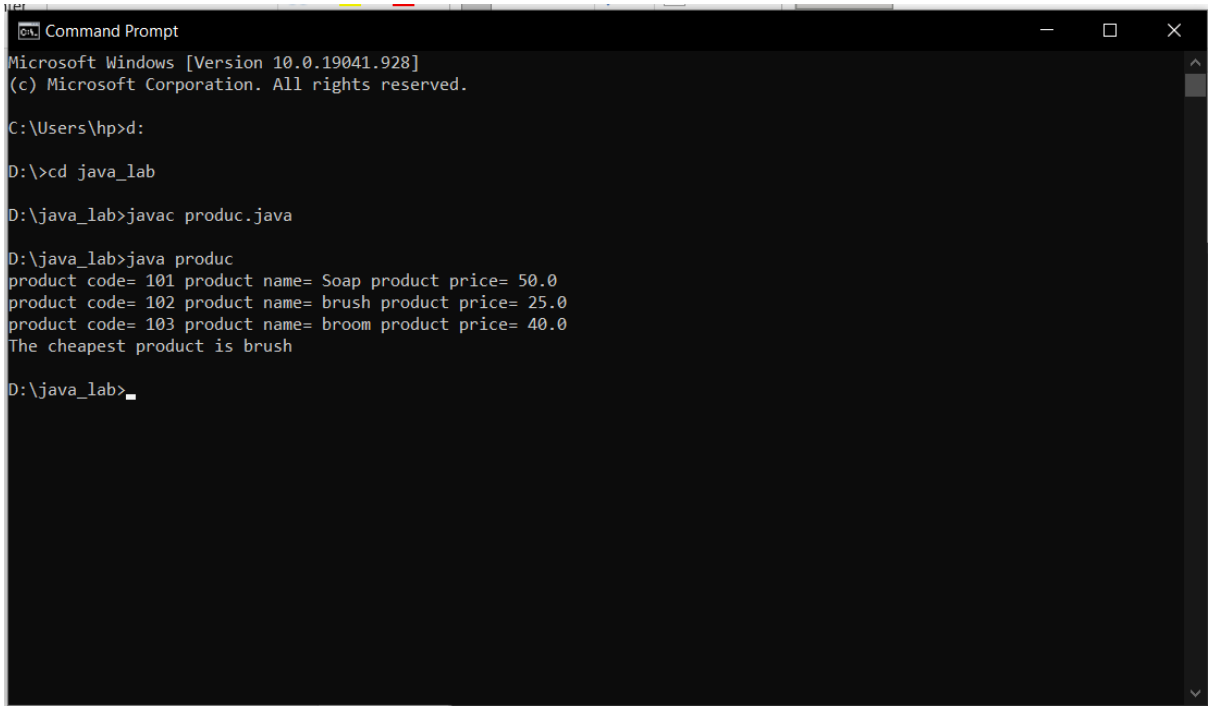
PROGRAM

```
class product{
        int pcode;
        String pname;
        float price;
        void getdat( int x,String y,float z){
        pcode=x;
        pname=y;
        price=z;
        }
        void showdata(){
        System.out.println("product code= "+pcode+ " product name= " +pname+" product price= "+price);
        }

}
public class produc{
public static void main(String[] args){
product p1=new product();
product p2=new product();
product p3=new product();
p1.getdat(101,"Soap",50);
p2.getdat(102,"brush",25);
p3.getdat(103,"broom",40);
p1.showdata();
p2.showdata();
```

```
p3.showdata();
if ((p1.price)<(p2.price)&&(p1.price)<(p3.price))
        {
                System.out.println("The cheapest product is "+p1.pname);
        }
        else if ((p2.price)<(p1.price)&&(p2.price)<(p3.price))
        {
                System.out.println("The cheapest product is "+p2.pname);
        }
        else
        {
                System.out.println("The cheapest product is "+p3.pname);
        }
}
}
```

OUTPUT

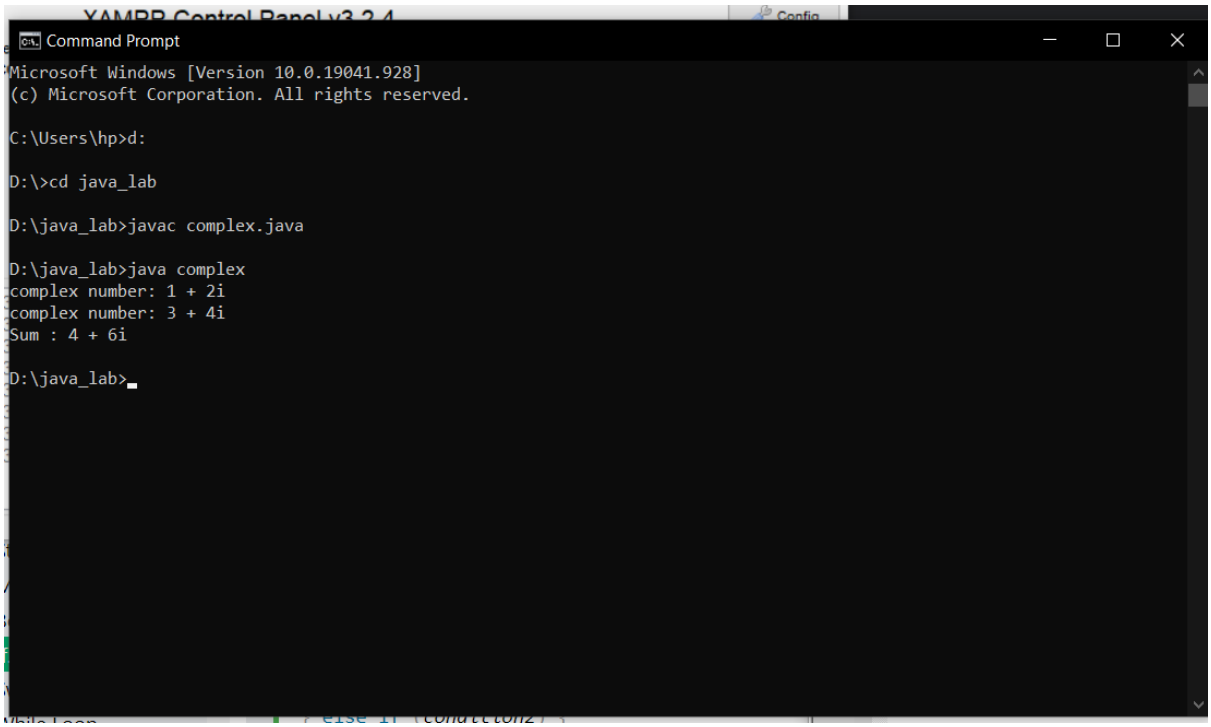


3. Add complex numbers

PROGRAM

```
class comple
        {
        int real;
        int imaginary;
        void getdata(int x, int y)
        {
        real=x;
        imaginary=y;
        }
        void showdata()
        {
        System.out.println("complex number: "+real+ " + "+imaginary+"i" );
        }
}
public class complex{
public static void main(String[] args){
comple o1=new comple();
comple o2=new comple();
o1.getdata(1,2);
o2.getdata(3,4);
o1.showdata();
o2.showdata();
System.out.println("Sum : "+(o1.real+o2.real)+ " + " +(o1.imaginary+o2.imaginary)+"i");
}
}
```

OUTPUT


Command Prompt
Microsoft Windows [Version 10.0.19041.928]
(c) Microsoft Corporation. All rights reserved.
C:\Users\hp>d:
D:\>cd java_lab
D:\java_lab>javac complex.java
D:\java_lab>java complex
complex number: 1 + 2i
complex number: 3 + 4i
Sum : 4 + 6i
D:\java_lab>