NETWORKING & SYSTEM ADMINISTRATION LAB

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Roll No:1

Batch:

Date:

Program No.: 1

Aim

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..

Procedure

```
public class Product{
 String pcode,pname;
 double price;
  public void details(){
            System.out.println("the product name is:" + pname);
                    System.out.println("the product code is:" + pcode);
            System.out.println("the product price is:" + price);

}
  public static void main(String args[]){
   Product obj1=new Product();
   obj1.pcode="p100";
   obj1.pname="cake";
   obj1.price=45.5;
   obj1.details();
    Product obj2=new Product();
   obj2.pcode="p200";
   obj2.pname="juice";
   obj2.price=40;
   obj2.details();
    Product obj3=new Product();
   obj3.pcode="p300";
```

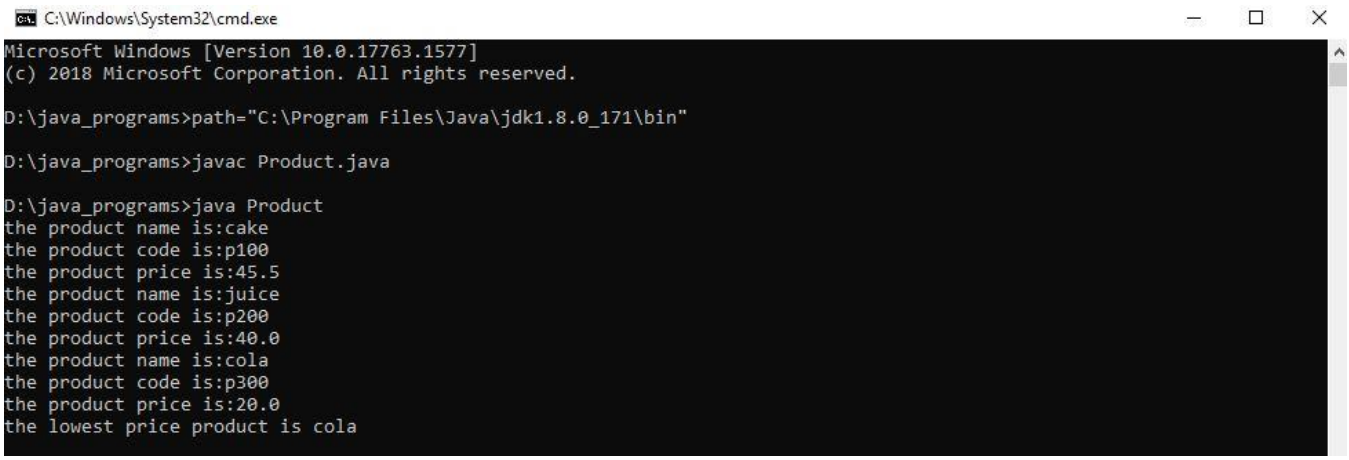
```
  obj3.pname="cola";
  obj3.price=20 ;
  obj3.details();
  if((obj1.price<obj2.price)&&(obj1.price<obj3.price)){
        System.out.println("the lowest price product is " + obj1.pname);
  }

  else if((obj2.price<obj1.price)&&(obj2.price<obj3.price)){
        System.out.println("the lowest price product is " + obj2.pname);
  }
  else{

        System.out.println("the lowest price product is " + obj3.pname);

  }
 }
}
```

Output Screenshot



Program No.: 2

Aim

Read 2 matrices from the console and perform matrix addition.

Procedure

```
import java.util.*;
class Matrix
{
public static void main(String args[])
{
int row, col,i,j;
Scanner in = new Scanner(System.in);

System.out.println("Enter the number of rows");
row = in.nextInt();

System.out.println("Enter the number columns");
col = in.nextInt();

int mat1[][] = new int[row][col];
int mat2[][] = new int[row][col];
int res[][] = new int[row][col];

System.out.println("Enter the elements of matrix1");

for ( i= 0 ; i < row ; i++ )
{

for ( j= 0 ; j < col ;j++ )
mat1[i][j] = in.nextInt();

System.out.println();
}
System.out.println("Enter the elements of matrix2");
```

```
for ( i= 0 ; i < row ; i++ )
{

for ( j= 0 ; j < col ;j++ )
mat2[i][j] = in.nextInt();

System.out.println();
}

for ( i= 0 ; i < row ; i++ )
for ( j= 0 ; j < col ;j++ )
res[i][j] = mat1[i][j] + mat2[i][j] ;

System.out.println("Sum of matrices:-");

for ( i= 0 ; i < row ; i++ )
{
for ( j= 0 ; j < col ;j++ )
System.out.print(res[i][j]+"\t");
System.out.println();
}
}
}
```

Output Screenshot

```
D:\java_programs>javac Matrix.java

D:\java_programs>java Matrix
Enter the number of rows
2
Enter the number columns
2
Enter the elements of matrix1
1
2

3
4

Enter the elements of matrix2
3
4

5
6

Sum of matrices:-
4       6
8       10

D:\java_programs>
```