

OOPS LAB CYCLE 1

PROGRAM 1

```
package myproject;

public class product {

    int pcode;

    String pname;

    int price;

    public static void main(String[] args) {

        product ob1= new product();

        product ob2= new product();

        product ob3= new product();

        ob1.pcode=56894;

        ob1.pname="redmi";

        ob1.price=24000;

        ob2.pcode=78994;

        ob2.pname="realmi";

        ob2.price=24500;

        ob3.pcode=45694;

        ob3.pname="vivo";

        ob3.price=22000;

        if(ob1.price<=ob2.price && ob1.price<=onb3.price)
```

```
System.out.println(ob1.pname+"is cheaper");

        else if(ob2.price<=ob1.price && ob2.price<= ob3.price)

            System.out.println(ob2.pname+ "is cheaper");

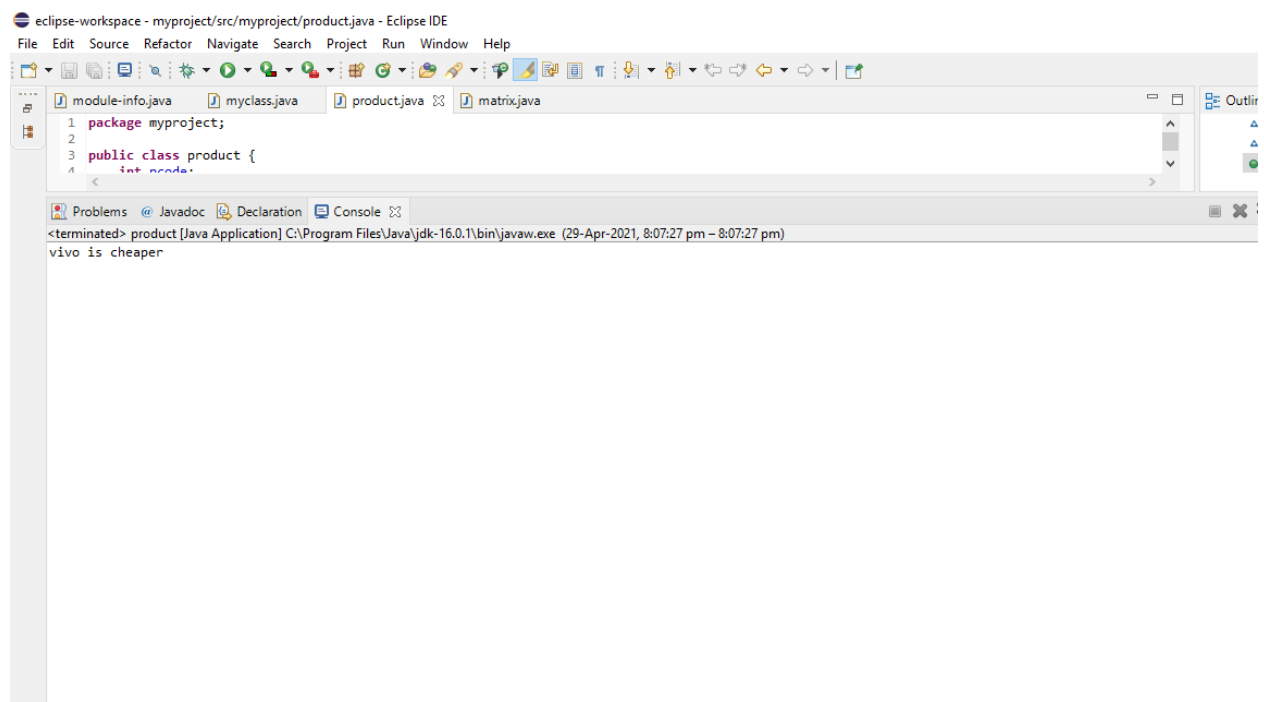
else

            System.out.println(ob3.pname+" is cheaper");

    }

}
```

OUTPUT



PROGRAM 2

```
package myproject;

import java.util.Scanner;

public class matrix {

    public static void main(String[] args) {

        int m,n,i,j;

        Scanner in = new Scanner(System.in);

        System.out.println("Enter the number of rows");

        m = in.nextInt();

        System.out.println("Enter the number columns");

        n = in.nextInt();

        int mat1[][] = new int[m][n];

        int mat2[][] = new int[m][n];

        int res[][] = new int[m][n];

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

```
for ( i= 0 ; i < m ; i++ )  
  
    {  
  
        for ( j= 0 ; j < n ;j++ )  
            mat1[i][j] = in.nextInt();  
        System.out.println();  
    }  
    System.out.println("Enter the elements of matrix2");  
  
    for ( i= 0 ; i < m ; i++ )  
  
        {  
  
            for ( j= 0 ; j < n ;j++ )  
                mat2[i][j] = in.nextInt();  
  
            System.out.println();  
        }  
  
        for ( i= 0 ; i < m ; i++ )  
            for ( j= 0 ; j < n ;j++ )  
                res[i][j] = mat1[i][j] + mat2[i][j] ;
```

```

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

for ( i= 0 ; i < m ; i++ )

{

for ( j= 0 ; j < n ;j++ )

System.out.print(res[i][j]+"t");

System.out.println();

}}}

```

OUTPUT

The screenshot shows the Eclipse IDE interface. The main editor displays the code for `matrix.java`. The console window at the bottom shows the program's execution. It prompts the user to enter the number of rows (3) and columns (2). Then, it asks for the elements of matrix1 and matrix2. The final output is a table showing the sum of the matrices.

```

<terminated> matrix [Java Application] C:\Program Files\Java\jdk-16.0.1\bin\javaw.exe (29-Apr-2021, 8:06:10 pm - 8:06:57 pm)
Enter the number of rows
3
Enter the number columns
2
Enter the elements of matrix1
3
5
4
6
9
4
Enter the elements of matrix2
6
4
2
1
4
3
Sum of matrices:-
9      9
6      7
13     7

```