

## PRACTICAL 4

AIM: An electric appliance shop assigns code 1 to motor, 2 to fan, 3 to tube and 4 for wires. All other items have code 5 or more. While selling the goods, a sales tax of 8% to motor, 12% to fan, 5% to tube light, 7.5% to wires and 3% for all other items is charged. A list containing the product code and price in two different arrays. Write a java program using switch statement to prepare the bill.

CODE:

```
import java.util.*;
class four
{
    /**
     * @param args
     */
    public static void main(String[] args)
    {
        double a, total=0, b;
        char i;
        int price, motor, fan, tube, wires, others, option ;
        Scanner sc= new Scanner(System.in);
        do{
            System.out.println("Enter Y if you want to shop and N for exit :");
            i = sc.next().charAt(0);

            System.out.println("Select your option :");
            System.out.println("1. Motor");
            System.out.println("2. Fan");
            System.out.println("3. Tube");
            System.out.println("4. wires");
            System.out.println("5. others");
            Scanner sc1= new Scanner(System.in);
            System.out.println("Enter your option :");
            option = sc1.nextInt();
            switch(option)
            {
                case 1:
                {
                    a=0.08;
                    price=10000;
                    b=a*price;
                    total=price+b;
```

```
        }  
break;  
    case 2:  
  
        break;  
    case 3:  
    {  
  
        a=0.05;  
        price=500;  
        b=a*price;  
        total=price+b;  
    }  
    break;  
    case 4:  
    {  
        price=1000;  
        a=0.75;  
        b=a*price;  
        total=price+b;  
    }  
    break;  
    case 5:  
    {  
        price=200;  
        a=0.03;  
        b=a*price;  
        total=price+b;  
    }  
    break;  
    }  
    System.out.println("Final price is " + total);  
    System.out.println("23DIT043 ESHA PATEL");  
  
    }while(i=='y');  
  
}  
}
```

## OUTPUT:

```
Enter Y if you want to shop and N for exit :  
Y  
Select your option :  
1. Motor  
2. Fan  
3. Tube  
4. wires  
5. others  
Enter your option :  
3  
Final price is 525.0  
23DIT043 ESHA PATEL
```

## CONCLUSION:

The Java program provided is designed to calculate the final price of an item after applying a sales tax based on the product code. The program uses a switch statement to determine the sales tax rate and calculate the final price.