**Java LAB – {7}**

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3-MCA B

**CODE :**

import java.util.Scanner;

// Abstract class that represents a generic ecommerce platform

abstract class EcommercePlatform {

    private String brand;

    private String name;

    private boolean isLoggedIn;

    public EcommercePlatform(String brand, String name) {

        this.brand = brand;

        this.name = name;

        this.isLoggedIn = false;

    }

    // Abstract method to show products

    public abstract void showProducts();

    public String getName(){

        return name;

    }

    public boolean isLoggedIn(){

        return isLoggedIn;

    }

    public void login() {

        this.isLoggedIn = true;

        System.out.println("Logged in to " + this.brand + " " + this.name);

    }

    public void logout() {

        this.isLoggedIn = false;

        System.out.println("Logged out from " + this.brand + " " + this.name);

    }

}

// Final class that extends the EcommercePlatform class and represents a specific ecommerce platform

final class Amazon extends EcommercePlatform {

    public Amazon(String name) {

        super("Yuckquee", name);

    }

    // Overrides the showProducts() method of the EcommercePlatform class

    public void showProducts() {

        System.out.println("Showing products on Yuckquee " + getName());

    }

}

// Final class that extends the EcommercePlatform class and represents a specific ecommerce platform

final class eBay extends EcommercePlatform {

    public eBay(String name) {

        super("StickersBABA", name);

    }

    // Overrides the showProducts() method of the EcommercePlatform class

    public void showProducts() {

        System.out.println("Showing products on StickersBABA " + getName());

    }

}

public class Java\_Lab\_07 {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter ecommerce platform type (Yuckquee or StickersBABA):");

        String platformType = scanner.nextLine();

        System.out.println("Enter platform name:");

        String name = scanner.nextLine();

        EcommercePlatform platform = null;

        if (platformType.equalsIgnoreCase("Yuckquee")) {

            platform = new Amazon(name);

        } else if (platformType.equalsIgnoreCase("StickersBABA")) {

            platform = new eBay(name);

        } else {

            System.out.println("Invalid ecommerce platform type.");

            return;

        }

        while(true){

            System.out.println("(1) Login\n(2) Show Products\n(3) Logout\nEnter : ");

            int ch;

            ch = scanner.nextInt();

            switch(ch){

                case 1: platform.login();

                    break;

                case 2:

                    if(!platform.isLoggedIn())

                        System.out.println("Log in to the platform first");

                    else

                        platform.showProducts();

                    break;

                case 3:

                    if(!platform.isLoggedIn())

                        System.out.println("You are already logged out");

                    else

                        platform.logout();

                    break;

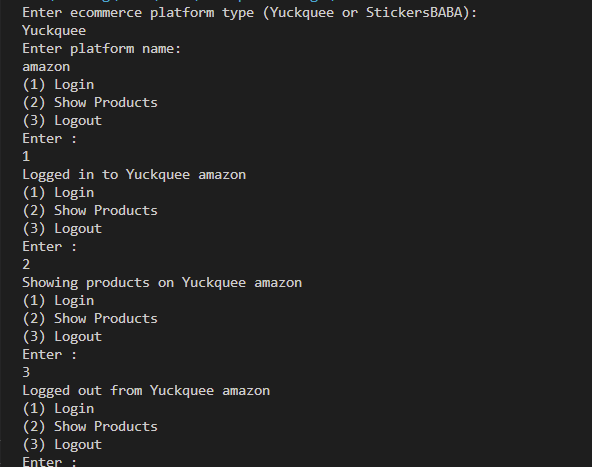
            }

        }

    }

}

**OutPut:**

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