package cts;

public interface Notification {

void notifyUser();

}

package cts;

public class EmailNotification implements Notification {

public void notifyUser() {

System.out.println("Sending an Email Notification");

}

}

package cts;

public class SMSNotification implements Notification {

public void notifyUser() {

System.out.println("Sending an SMS Notification");

}

}

package cts;

public class PushNotification implements Notification {

public void notifyUser() {

System.out.println("Sending a Push Notification");

}

}

package cts;

public class NotificationFactory {

public Notification createNotification(String type) {

if (type == null || type.isEmpty())

return null;

if (type.equalsIgnoreCase("EMAIL")) {

return new EmailNotification();

} else if (type.equalsIgnoreCase("SMS")) {

return new SMSNotification();

} else if (type.equalsIgnoreCase("PUSH")) {

return new PushNotification();

}

return null;

}

}

package cts;

public class Main1 {

public static void main(String[] args) {

NotificationFactory factory = new NotificationFactory();

Notification n1 = factory.createNotification("EMAIL");

n1.notifyUser();

Notification n2 = factory.createNotification("SMS");

n2.notifyUser();

Notification n3 = factory.createNotification("PUSH");

n3.notifyUser();

Notification n4 = factory.createNotification("UNKNOWN");

if (n4 == null) {

System.out.println("Unknown notification type");

}

}

}

OUTPUT:

Sending an Email Notification

Sending an SMS Notification

Sending a Push Notification

Unknown notification type