import java.util.Random;

// Employee class

class Employee {

private String firstName;

private String lastName;

public Employee(String firstName, String lastName) {

this.firstName = firstName;

this.lastName = lastName;

}

public String getFirstName() {

return firstName;

}

public String getLastName() {

return lastName;

}

}

// CredentialService class

class CredentialService {

private static final String[] departments = {"Technical", "Admin", "Human Resource", "Legal"};

public static String generateEmailAddress(Employee employee, String department, String company) {

return employee.getFirstName().toLowerCase() + employee.getLastName().toLowerCase() +

"@" + department.toLowerCase() + "." + company.toLowerCase() + ".com";

}

public static String generatePassword() {

String uppercase = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

String lowercase = "abcdefghijklmnopqrstuvwxyz";

String digits = "0123456789";

String specialChars = "!@#$%^&\*()\_+-=[]{}|;:,.<>?";

Random random = new Random();

StringBuilder password = new StringBuilder();

password.append(uppercase.charAt(random.nextInt(uppercase.length())));

password.append(lowercase.charAt(random.nextInt(lowercase.length())));

password.append(digits.charAt(random.nextInt(digits.length())));

password.append(specialChars.charAt(random.nextInt(specialChars.length())));

for (int i = 4; i < 12; i++) {

String allChars = uppercase + lowercase + digits + specialChars;

password.append(allChars.charAt(random.nextInt(allChars.length())));

}

return password.toString();

}

public static void showCredentials(Employee employee, String department, String company) {

String email = generateEmailAddress(employee, department, company);

String password = generatePassword();

System.out.println("Dear " + employee.getFirstName() + " your generated credentials are as follows");

System.out.println("Email ---> " + email);

System.out.println("Password ---> " + password);

}

}

public class Main {

public static void main(String[] args) {

Employee employee = new Employee("Harshit", "Choudary");

String department = "Technical";

String company = "abc";

CredentialService.showCredentials(employee, department, company);

}

}