problem\_1.py :

import java.util.Scanner;

public class p1

{

public static void main(String args[])

{

Scanner input = new Scanner(System.in);

String UserName, Password, Email;

System.out.println("Enter your UserName:");

UserName = input.nextLine();

System.out.println("Enter your Password:");

Password = input.nextLine();

System.out.println("Enter your Email:");

Email = input.nextLine();

// Validate UserName

if (UserName.isEmpty())

{

System.out.println("UserName should not be empty");

System.out.println("UserName is invalid");

}

else if (UserName.length() > 50)

{

System.out.println("UserName should not exceed 50 characters");

System.out.println("UserName is invalid");

}

else

{

System.out.println("UserName is valid");

}

// Validate Password

if (Password.isEmpty())

{

System.out.println("Password should not be empty");

System.out.println("Password is invalid");

}

else if (Password.length() < 8)

{

System.out.println("Password should not be less than 8 characters");

}

else if (!Password.matches(".\*[!@#$%^&\*()].\*"))

{

System.out.println("Password should contain at least one special symbol");

}

else if (!Password.matches(".\*[0-9].\*"))

{

System.out.println("Password should contain at least one number");

}

else if (!Password.matches(".\*[A-Z].\*"))

{

System.out.println("Password should contain at least one uppercase character");

}

else if (!Password.matches(".\*[a-z].\*"))

{

System.out.println("Password should contain at least one lowercase character");

}

else

{

System.out.println("Password is valid");

}

// Validate Email

if (Email.isEmpty())

{

System.out.println("Email should not be empty");

System.out.println("Email is invalid");

}

else if (!Email.matches("^[A-Za-z0-9.\_%+-]+@[A-Za-z0-9.-]+\\.[A-Za-z]{2,6}$"))

{

System.out.println("Email should be a valid email address");

System.out.println("Email is invalid");

}

else

{

System.out.println("Email is valid");

}

}

}