

## Use **Passay** to Generate Random Password and OTP (One Time Password)

Passay is Java Library that is used to generate secure Random Passwords and can also be used to generate random One Time Passwords.

Passay is available at Maven repository [www.mvnrepository.com](http://www.mvnrepository.com)

Dependency for Passay is

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```
<dependencies>
<dependency>
    <groupId>org.passay</groupId>
    <artifactId>passay</artifactId>
    <version>1.6.3</version>
</dependency>
</dependencies>
```

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Following is the code to generate random password of length 8 with 4 Upper Case Letters, 2 Lower Case Letters and 2 Digits

Code also generates OTP with 4 random digits.

Following is the code

```
import org.passay.CharacterRule;
import org.passay.EnglishCharacterData;
import org.passay.PasswordGenerator;

/**
 *
 * @author raman
 */
public class Passay {

    public static void main(String[] args) {

        CharacterRule LCR = new CharacterRule(EnglishCharacterData.LowerCase);

        // set number of lower case characters

        LCR.setNumberOfCharacters(2);
```

```

// create character rule for upper case
CharacterRule UCR = new CharacterRule(EnglishCharacterData.UpperCase);

// set number of upper case characters
UCR.setNumberOfCharacters(4);

// create character rule for digit
CharacterRule DR = new CharacterRule(EnglishCharacterData.Digit);

// set number of digits
DR.setNumberOfCharacters(2);

// create instance of the PasswordGenerator class
PasswordGenerator passGen = new PasswordGenerator();

// call generatePassword() method of PasswordGenerator class to get Password generated
password

String password = passGen.generatePassword(8, LCR, UCR, DR);

String otp=passGen.generatePassword(4, DR);
System.out.println("Random Password " + password);
System.out.println("OTP of length 4 is " + otp);

}
}

```

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Output

Random Password wYW6bY4K

OTP of length 4 is 7583