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import java.security.SecureRandom; // Import SecureRandom for secure random number generation


public class PasswordGenerator { // Define the class
  private int length; // Attribute to store the password length


  // Constructor to initialize the password length
  public PasswordGenerator(int length) {
    this.length = length; // Set the length attribute
  }


  // Method to generate the password
  public String generatePassword() {
    // Define the character set
    String characters = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789!@#$%^&*()";
    SecureRandom random = new SecureRandom(); // Create a SecureRandom instance
    StringBuilder password = new StringBuilder(); // Use StringBuilder for efficient string manipulation


    // Generate the password by picking random characters from the set
    for (int i = 0; i < length; i++) {
      int randomIndex = random.nextInt(characters.length()); // Get a random index
      password.append(characters.charAt(randomIndex)); // Append the character at the random index
    }
```

```
        return password.toString(); // Return the generated password as a string
    }

    // Main method to test the PasswordGenerator class
    public static void main(String[] args) {
        PasswordGenerator passwordGenerator = new PasswordGenerator(10); // Create an instance with length 10
        String password = passwordGenerator.generatePassword(); // Generate the password
        System.out.println("Generated Password: " + password); // Print the password
    }
}
```