PASSWORD GENERATOR

```java
package com.fliprobo.Internship;

import java.util.Random;
import java.util.concurrent.ThreadLocalRandom;

public class Password_Generator {
    public static void main(String[] args) {
        Password_Generator p = new Password_Generator();
        StringBuffer password = new StringBuffer();
        password = p.Generating_Password();
        System.out.println("Password: " + password);
        System.out.println("Length: " + password.length());
        System.out.println(p.Password_Strength(password));

    }

    public StringBuffer Generating_Password(){
        String upper = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
        String lower = "abcdefghijklmnopqrstuvwxyz";
        String num = "0123456789";
        String specialChars = "<>,./}]{[+_-)(*&^%$#@!=:';";
        String combination = upper+lower+num+specialChars;
        int len = ThreadLocalRandom.current().nextInt(8,17);
        Random r = new Random();
        StringBuffer password = new StringBuffer();
        for (int i = 0; i < len; i++) {
          int index = r.nextInt(combination.length());
          char character = combination.charAt(index);
          password.append(character);
         }
         return password;
    }

    public String Password_Strength(StringBuffer password) {
        if(password.length() == 8 ) {
            return "Password Strength is very weak";
        }
        else if(password.length()==9||
                password.length()== 10)
        {
            return "Password Strength is weak";
        }else if(password.length() == 11 ||
                password.length()==12)

        {
            return "Password Strength is Medium";
        }
```

```java
        else if(password.length() == 13  ||
                password.length()==14)
        {
            return "Password Strength is Strong";
        }else {
            return "Password Strength  is Very Strong";
        }
    }
}
```

OUTPUT

Console ×
<terminated> Password_Generator [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (25-Sep-2023, 5:31:40 pm – 5:31:41 pm) [pid: 25344]
```
Password: +[UJ_5eBL{*uh*
Length: 14
Password Strength is Strong
```

Console ×
<terminated> Password_Generator [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (25-Sep-2023, 5:40:59 pm – 5:41:00 pm) [pid: 13276]
```
Password: :5y/]ITZ3>
Length: 10
Password Strength is weak
```

Console ×
<terminated> Password_Generator [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw.exe (25-Sep-2023, 5:41:25 pm – 5:41:25 pm) [pid: 19068]
```
Password: W%Bs[yD*^:cXIt{W
Length: 16
Password Strength  is Very Strong
```