

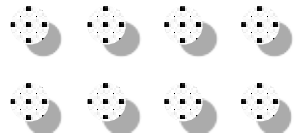


# Random Password Generator

Harsh Mavani  
24 May 2022

# Functionality

- Special Character
- Number
- Symbol
- Generated Password Time
- Letters
- Color



# Time Function

**Header file : #include <chrono>  
using namespace std::chrono;**

- First of all , here i am get system time and then implement the password generator
- Basically i am doing subscracte time of generate before for loop and after for loop time
- start = high\_resolution\_clock::now();
- end = high\_resolution\_clock::now();
- ans = start – end ;
- Given ans in microsecond

# Header File Functionality

## **iostream**

iostream provides basic input and output services. iostream uses the objects cin, cout for sending data to and from the standard streams input, output, error (unbuffered), and log (buffered) respectively.

## **omanip**

which helps us in manipulating the output. There are many functions in this library that help in manipulating the output. To name a few we have functions to reset flags, set fill characters, setw, set precision, get date and time, etc.

## **chrono**

Chrono library is used to deal with date and time. The unique thing about chrono is that it provides a precision-neutral concept by separating duration and point of time ("timepoint") from specific clocks. It's deal in microsecond , seconds

# Why i am Using this header file

## 01 iostream

- Because of the i need to cin and cout
- And also for the using namespace std;

## 02 chrono

Because of i need get system time and after finishing loop system end time means i need loop starting time as well as loop end time that's why....

## 03 iomanip

Because of the i need to set for this particular project that's it

## Used Concepts

0

### Function

1

Here i am using around 15+ function utilized  
Like welcome,latter,symbol, capital, etc...

0

### Timing

3

Because I want to show the time to the user  
Like  
`duration =  
duration_cast<microseconds>(stop - start);`

0

### For loop , if-else

2

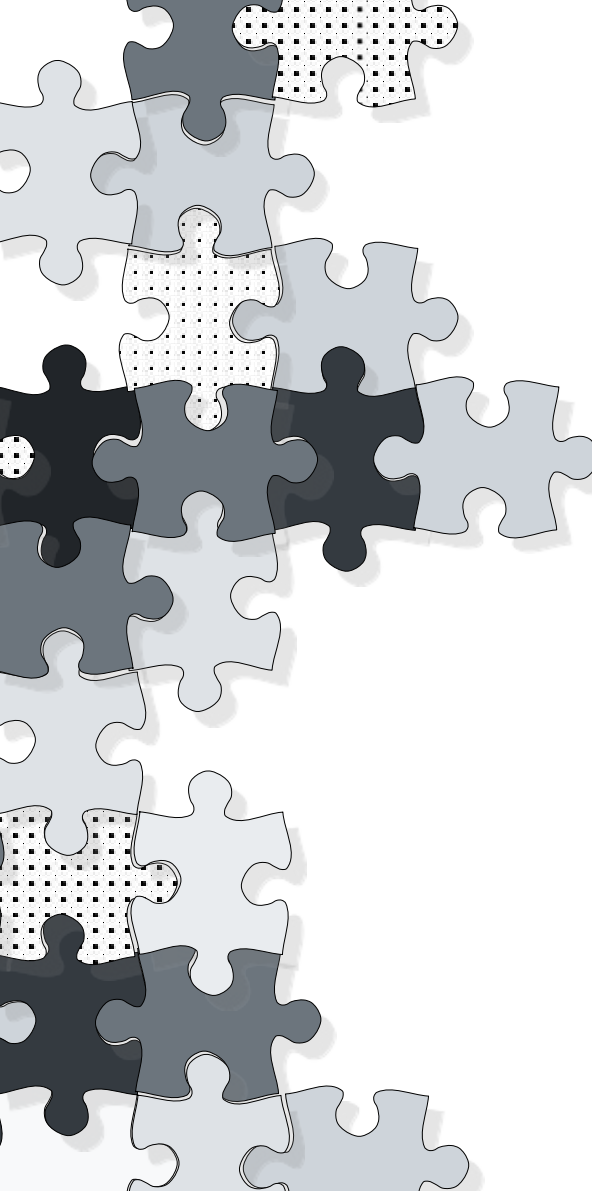
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

0

### Switch case

4

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



**“** The most prevalent way hackers can break through computers is by guessing your password. Use of simple and common passwords creates an opportunity for hackers to get access to your electronic devices. Since no one would wish to have their personal information stolen, use strong passwords to protect your information.

Purpose of this Project

**”**

*Thank You!*

