## Simple Password Generator By Java

Here is where our presentation begins

## **About this Password Generator**

Here with java we have created a simple Password Generation where user can input their password generation length and the system returns a unique password with Capital, Small, Number and Symbols.

Let's See our Code:

```
private static char[] Passwordgenerator(int lenth) {
    String Capital_chars = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
    String Small_chars = "abcdefghijklmnopqrstuvwxyz";
    String numbers = "0123456789";
    String symbols = "!@#$%^&*_=+-/.?♦)";
    String values = Capital_chars + Small_chars + numbers + symbols;
    Random rndm_method = new Random();
    char[] password = new char[lenth];
    for (int i = 0; i < lenth; i++)</pre>
      password[i] =
      values.charAt(rndm_method.nextInt(values.length()));
        return password;
```

- So Firstly, here we can see, we have taken String Data
  Type and Variables of Capital\_chars, Small\_chars etc etc
  and Defined what are these.
- Secondly we have taken a object called values and added the Data Typed Variables here
- Thirdly with Random(); function on java library we run a Random method.
- Then took char[] and declared character length to process password into definite length.
- Then we took for loop to generate the password within the given length
- It returns password

## The Main Method

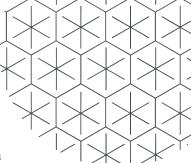
Here we see how our main method works on java.

In Java we write public static void main(String[] args) as main function or method on Java

Let's See our Code:

```
. . .
  import java.util.Scanner;
  public static void main(String[] args)
      try (Scanner len = new Scanner(System.in)) {
      System.out.println("Enter your password Length");
      int length = len.nextInt();
      System.out.println("Your Password is: " + length + " Legnth");
      System.out.println(Passwordgenerator(length));
```

- Here in main function we had to take a library called java.util.Scanner; which takes input on terminal
- In public static void main(String[] args)
   We have declared try method to close the functions
- Took Scanner len as a object for scanner then the "Enter you password Length is just a display to show user to enter length for password.
- Took int length which is equal to len.nextInt(); which directs us to length taken in integer
- Then We print our password and desired password length on our terminal.



## Thank you

With this main method we complete our code / script of Simple Password Generation on java.

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