HIGH LEVEL DOCUMENTATION

ON

ANALYZING A LINE OF ALPHANUMERIC TEXT

SUBMITTED BY:

Team name: **DIVISIBLE BY ZERO**

AISHWARYA B 16TUEE010

PRIYADARSHINI B 16TUEE149

VANATHI T 16EUIT165

TABLE OF CONTENTS

01. BACKGROUND

This document contains the high level design of the project that analyzes a line of alphanumeric text by examining characters. The modules of the project are yet to be implemented.

SNO	MODULES	STATUS
01	INPUT(MAIN ROUTINE)	TO BE IMPLEMENTED
02	COUNT (SUBROUTINE)	TO BE IMPLEMENTED
03	PASSWORD(SUBROUTINE)	TO BE IMPLEMENTED
04	OUTPUT(MAIN ROUTINE)	TO BE IMPLEMENTED

02. INTRODUCTION

Alphanumeric, also known as alphameric, simply refers to the type of Latin and Arabic characters representing the numbers 0 - 9, the letters A - Z (both uppercase and lowercase), and some common symbols such as @ # * and &.

A best example is Sites requesting that you to create an alphanumeric password are asking us to use a combination of numbers and letters, which creates stronger passwords.

Alphanumeric passwords require both numbers and letters and special characters. The password should contain at least eight characters with one number, one special character and one lowercase and uppercase letter. If any of the above specifications are not satisfied, the password is not accepted and the Site notifies to define a new password with the required specifications.

03. BASIC REQUIREMENT:

SNO	REQUIREMENT	STATUS
01	A line of alphanumeric text	User defined
02	A specified pattern format	Standard

04. PROBLEM STATEMENT:

Analyzing a Line of Alphanumeric Text: Analyze a line of alphanumeric text by examining each of the characters and display the total number of vowels, constants and digits in that line of text.

1) This can easily be accomplished by reading in a line of text, storing it in a one-dimensional character array, and then analyzing the individual array elements.

2) The line of text should be read in main function, then analyzing the array elements in sub function and result of counts should be print from main function

Example: “oiefr26a 3sdfi” while considering this line of alphanumeric text, vowels 5, constants 5, digits 3.

Also our machine can identify whether the given string is accepted as a standard password by any site.

1) This can be implemented by reading in a line of text, storing it in a one-dimensional character array, and then analyzing the individual array elements.

2) The line of text should be read in main function, then analyzing the array elements in sub function and result should be printed.

Example: “India_2020” while considering this line of alphanumeric text given as a password, it is accepted. On the other hand “India” will not be accepted as it does not contain the minimum required specifications (i.e. India doesn’t neither have a special character nor a digit).

05. SCREEN DISPLAY

1. When an error message is displayed system should wait for a key press.