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|  | **Department of Computer Science &IT**  **University of Azad Jammu & Kashmir,**  **Muzaffarabad** |

**Programming Fundamentals (CS-1102)**

**(Course Project)**

**Prepared By Roll Numbers: 75,**

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Course Learning Outcomes (CLOs):

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| **Sr. #** | **CLO** |
| **1** | Understand basic problem-solving steps and logic constructs |
| **2** | Apply basic programming concepts |
| **3** | Design and implement algorithms to solve real-world problems. |

**Prepared by: Dr. Rabia Riaz**

Programming Fundamentals

Course Project

CS-1102

Due Date: May 06, 2022

**Design and develop allocated project in C++ as a simple console application without the use of graphics component. [CLO-3: 15 Marks]**

**Write a Program to Count Digits, Alphabets and Spaces using File Handling**

This application should take a .txt file as input and count and display Digits, alphabets and spaces using file handling mechanism

* **Code**

#include <iostream>

# include <string.h>

using namespace std;

int main()

{

char ch;

int ascii,alpha\_count=0,space\_count=0,digit\_count=0;

// create a file pointer

FILE \*file ;

// open the file in read mode

file = fopen("file1.txt", "r") ;

while(1)

{ //read the chracter from the file

ch = fgetc(file);

// if the chracter is in the end of the file

if ( ch == EOF )

break ;

//print the read chracter

cout<<ch;

// convert the chracter into equivalent ascii code

ascii=ch;

//check if the chracter is an Alphabet

if(ascii>63 && ascii<91 || ascii>96 && ascii<123)

alpha\_count+=1;

// check if the chracter is an empty space

else if(ch==' ')

space\_count+=1;

//check if the chracter is a Digit

else if(ascii>47&&ascii<58)

digit\_count++;

}

fclose(file);

cout<<"\n---------The Above File Statement Has----------------------\n";

cout<<"No. of Alphabets :: "<<alpha\_count<<endl;

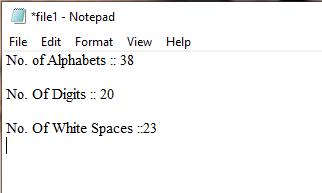
cout<<"No. Of Digits :: "<<digit\_count<<endl;

cout<<"No. Of White Spaces :: "<<space\_count<<endl;

return 0;

}

# C:\Users\hp\Desktop\000.PNGOutput:

* **File Of Program:**

# (Good Luck)

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