**2: Read the numbers stored in a file named input.txt. Write a function to check if the number is divisible by 8. Create an output file named output.txt. If it is divisible, write number ‘1’ into output file. If it is not divisible, write ‘0’ to the output file.**

==============================================================================

**DESCRIPTION**

* Program to find the number in the file is divisible by 8 or not.
* The contents of the files will be in the form of string by default, the type conversion into the required data type can be done by using the format specifiers . some of the file reading functions in C provides the type conversion with format specifiers, one such function is fscanf() function .
* fscanf() function takes FILE pointer , format specifier , variable as the arguments , it converts the content of the file form file pointer to the type specified as the format specifier into the variables.
* The output is written to the file as 1 if the number is divisible by 8 , else the output file will be written as 0, to write the content into the output file the file needs to be opened using access mode "w".
* fprintf() is the C function used to write the content from the variable into the file using format specifier, it takes FILE pointer , format specifier , variables as the arguments to the function
* The fclose() function is used to close the file which is opened by FILE pointer in order to avoid the addition of the junk value
* This program uses 1 function :

It takes the number as the parameter and returns 1 if it is divisible else it will return 0

Syntax :

int divisible(int n); n --> number to be checked

* SAMPLE INPUT

9

* OUTPUT

0

//Program

#include<stdio.h>

int divisible(int n)

{

return n%8==0;

}

void main()

{

FILE \*fp=fopen("8input.txt","r");

FILE \*fp1=fopen("8output.txt","w");

int x;

fscanf(fp,"%d",&x);

if(divisible(x))

{

printf("\n number is divisible by 8")

fprintf(fp1,"%d",1);

}

else

{

printf("\n number is not divisible by 8")

fprintf(fp1,"%d",0);

}

fclose(fp1);

} 