

File Conversion -- Remove Control Blocking Data from Backups

The given data has been through a "backup" program which added extraneous data. Corrupt data ALWAYS starts with a CONTROL-C and always ends in a CONTROL-B. This PERL program removes these values. To do this I had to create a program that would read through the file, character by character, and only put non-corrupted values in the new file.

Perl:

```
# File Conversion
# Xiana Lara
# 11/2/2020
# The given data has been through a "backup" program which added extraneous data
# Corrupt data ALWAYS starts with a CONTROL-C and always ends in a CONTROL-B
# This PERL program removes these values
# Input: Corrupt Data - control-char.txt
# Output: Clean Data - perl-control-char.txt

#!/usr/bin/perl

open(FH, '<', 'control-char.txt');

open(FILE, '>', 'perl-control-char.txt');

#true
$flag = 1;
$temp = getc(FH);

while($temp || $temp eq 0){

    $tempNum = ord($temp);

    # ctrl+C
    if ($tempNum == 0x03){
        $flag = 0; #false
    }

    if ($flag){
        $myChar = chr($tempNum);
        print FILE $myChar;
    }

    # ctrl+B
    if ($tempNum == 0x02){
        $flag = 1;
    }
}
```




```
}  
  
$temp = getc(FH);  
  
} # of while  
  
# close the files  
close (FILE);  
close (FH);
```

```
C:\Users\xiana\OneDrive\Documents\school\PLStruc\fileConv\perl>perl fileConvPerl.pl  
C:\Users\xiana\OneDrive\Documents\school\PLStruc\fileConv\perl>
```

perl-control-char - Notepad

File Edit Format View Help

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This is line 50 This is line 50 This is line 50 D
```

 control-char
 fileConvPerl
 perl-control-char



Java:

```
// File Conversion
// Xiana Lara
// 11/2/2020
// The given data has been through a "backup" program which added extraneous data
// Corrupt data ALWAYS starts with a CONTROL-C and always ends in a CONTROL-B
// This JAVA program removes these values
// Input: Corrupt Data - control-char.txt
// Output: Clean Data - java-control-char.txt

import java.io.*;
import java.util.*;

public class fileConvJava{

    public static void main (String args[])throws FileNotFoundException, IOException{

        // file path
        String filePath = "control-char.txt";

        File ogFile = new File(filePath);
        FileReader fRead = new FileReader(ogFile);
        BufferedReader buffRead = new BufferedReader(fRead);

        File fixedFile = new File("java-control-char.txt");
        fixedFile.createNewFile();
        FileWriter writeFile = new FileWriter("java-control-char.txt");

        // buffer
        int buff = 0;

        // if Ctrl+C
        boolean flag = true;

        while((buff = buffRead.read()) != -1){

            // ctrl-c
            if(buff == 0x03){
                flag = false;
            }

            if(flag){
```

```
        char tempChar = (char) buff;
        writeFile.write(tempChar);
    }

    // ctrl-b
    if(buff == 0x02){
        flag = true;
    }

} // of while

writeFile.close();

} // of main

} // of class
```

```
C:\Users\xiana\OneDrive\Documents\school\PLStruc\fileConv\java>javac fileConvJava.java
```

```
C:\Users\xiana\OneDrive\Documents\school\PLStruc\fileConv\java>java fileConvJava
```






```
C:\Users\xiana\OneDrive\Documents\school\PLStruc\fileConv\java>
```

java-control-char - Notepad

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This PC > Documents > school > PLStruc > fileConv > java

<input type="checkbox"/>	Name	Status
	cmdLine	✓
	control-char	✓
	fileConvJava.class	✓
	fileConvJava	✓
	java-control-char	✓

Python:

```
# File Conversion
# Xiana Lara
# 11/2/2020
# The given data has been through a "backup" program which added extraneous data.
# Corrupt data ALWAYS starts with a CONTROL-C and always ends in a CONTROL-B
# This PYTHON program removes these values
# Input: Corrupt Data - control-char.txt
# Output: Clean Data - python-control-char.txt

def main():

    flag = False

    fixedFile = open("python-control-char.txt", "a")
    ogFile = open("control-char.txt", "r+")

    oneChar = ogFile.read(1)
    while (oneChar):

        if (ord(oneChar) == 3):
            flag = True

        if (flag == False):
            fixedFile.write(oneChar)

        if (ord(oneChar) == 2):
            flag = False


        oneChar = ogFile.read(1)




    fixedFile.close()

main()
```

```
xlara@lovelace:~/Documents/pls> cd python
xlara@lovelace:~/Documents/pls/python> python3 fileConvPython.py
xlara@lovelace:~/Documents/pls/python>
```

Remote files Filter:

 /home/ugrad25/xlara/Documents/pls/pyth

Name	Size	Type
 control-char.txt	2,618	Text Docum
 fileConvPython.py	777	Python Sour
 python-control-char.txt	2,483	Text Docum

 python-control-char - Notepad

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