

PSDD – Creating Code - TASK 2 - Files

To complete this worksheet you require a working webserver, e.g. WOS (website on a stick).

Aim

The aim of this worksheet is to:

- Develop a php program using the design provided

Skills and knowledge

- Text files, reading and writing
- While loops, Binary selection
- Creating and testing php code

Outline:

You have been given a problem definition, test data, algorithm design and screen design. You need to create and test the php program code for this problem.

Problem definition

A text file sentence.txt contains the sentence "A quick brown fox jumped over the lazy dog." You need to enter in a letter then count and displays the number of occurrences of that letter in the text file.

Test Data

File content	Letter	Expected output	Actual output
The quick brown fox jumped over the lazy dog.	o	O occurred 4 times	
	e	E occurred 4 times	
	z	Z occurred 1 time	

Algorithm

```

BEGIN
  Lettercount = 0
  Open file junk.txt
  Get letter
  WHILE (Not eof)
    Read next character
    IF character = letter THEN
      Lettercount = Lettercount + 1
    END IF
  END WHILE
  Display Lettercount
END

```

Screen Design

Letter counter

Select Letter to count

The letter t occurred 2 times

Extension activity

1. Print out the sentence from the file
2. Modify the algorithm and code to find the letter that occurs most often
3. Modify the code to enable the user to select the file used (see screen design below)

Select File