CSE331-COMPUTER ORGANIZATION HOMEWORK 1
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Pseudocodes or Some Register Information

1)User can be write max 20 character for file name example :   input_hw1.txt

2)All digit word are allocated in memory example : one two etc. and One Two etc.

3)li $s3,'\0' that instruction in order to enter file name by user .
Then , label of fileNameFix and fileNameEnd change '\n' of end of user's input(file name).

4) move $a2,$a0 . I just want to change '\n' through registor a2.

5)addi $t2,$t2,1 . $t2 register says , this character is begin of sentence or not (if it is 1 begin or zero is not.

6)main : main function is started

7)returnKeepLabel: I'm keeping return adress for main function when I finish all process

8)fileNameFix : searching '\n' in end of filename

9)fileNameEnd: Im putting '\0' character to end of file name instead of '\n'

10)readFile: Open the file and reading their context.

11)Loop: All context are controllent though this label.

12)Continue: that controls what character is digit or not.

13)print: If character is not a digit , printing is here.

14)printNewLineAndPoint: If current character is new line or point these are printing is here.

15)IncrementControl: Indent and Point Increment for Capital Letter Digit

16)zeroLabel ...etc : printing letter of digit .

17)close : closing the our file.

Algorithm

1)Users enter a file name then this input is parsed in order to change end of input for putting '\0'

2)Entered file name is opened , read and putting first address to $a1 register.

3)I'm getting a byte each character by "lb" instruction

4)I want to know previous and next character for typing digit with word.

5)I say that $t2 his character is begin of sentence or not (if it is 1 begin or zero is not.) If taken character is digit and $t2 is 1 . "One" or "Two" etc. will be typed. If $t2 is 0 . "one" or "two" etc. typed.

6)But , I need to check next , previous and two previous character for floating number or bigger digit .
   lb $t5,0($a1) #Current Character
   lb $t7,-1($a1) #Previous Character
   lb $s4,1($a1) #Next Character
   lb $t8,-2($a1) #Two Previous Character

7)When I read and print all character in file . Main function is got back . It means , precedure is finished and back.

NEW FEATURE IN PROGRAM

1) User can type file name

   Enter Your File Name (Example : input_hw1.txt) : **input_hw1.txt**

2) User can do intent his/her file

   (Example :
   -File Content-
   There are 3 apples, 12 oranges in the kitchen.
   7 eggs also. TL 2.45 remaining money.

   - Printing Content -
   There are three apples, 12 oranges in kitchen.
   Seven eggs also . TL 2.45 remaning money.