REPORT – 151044085 EMRE KAVAK – HW1

.data

      Set digit labels to string equivalent (lower and upper) (for example one = "one")

      Set fileName to "input_hw1.txt"

      Set fileSpace to 256

.text

      Load inmediate register $v0 assign to 13 # for open file

      Load adress $a0 to fileName # load read file adress

      Load inmediate $a1 to 0 # read mode

      System call

      Move from $v0 the open file adress into $s0

      Set the register $v0 with 14 # read file system call code

      Move $s0 into $a0 for keep adress

      Load adress fileSpace into $a1 for use read byte to byte char

      Load inmediate $t0 with 0 for do check first latter in sentence

      Load inmediate $t4 with 0 for print upper-case latters

      System call

loop:

      if branch equal to zero jump to **Exit**

      Set to $v0 11 for print char

      Load byte first $a1 adress into $a0

      İncrease 1 $t0

      Set to $t4 with 0

      Check $a0 for equal digits;

      İf they digits, jump **checkAfter** label;

          İf $a1+1 adress is digit;

              Jump to **addOne** label;

                  AddOne will increase 1 $a1 and jump to loop

          İf $a1+1 equal '.';

              Jump to **checkAfterPoint**;

                  İf $a1+2 equal zero ;

                     Jump to **checkBefore** Label;

                        Check $a1 -1 adress and jumps labels

İf equal space ' ';

Jump to **checkSentenceEnd;**

Check if $a1-2 is equal '.';

Jump **afterSpacePrint;**

İncrease 1 $t4, jump **allPrint**

Else jump **allPrint** label:

Jump to labels according to digits

İf $t1 > 1, jump to **checkBefore** label;

Check $a1 -1 adress and jumps labels

Else jump to **allPrint** label:

Jump to labels according to digits

İf they aren't digit;

jal **procedure**;

İncrease 1 $a1

jr $ra

System call

Jump **loop**

Exit: Set to register $v0 with 10 (syscall exit code)

Move $s0 into $a0 for close file description