```
#!/bin/bash
#
# Author: Michael Kepple
# Date: 24 Jan 2013
#
# This script simulates the 'cat -n' command with an input file specified on the
# command line. Basically adds line numbers and formats the output appropriately.
#
if test -z "$1"; then
    echo Error:filename parameter expected.
    exit
else
    count=0
    while read line; do
        ((count++))
        printf "%6d  %s\n" "$count" "$line"
    done < $1
fi

:'
===============================================================================
Test
===============================================================================
(student)~/5520/Lab1% catn catn
     1  #!/bin/bash
     2  #
     3  # Author: Michael Kepple
     4  # Date: 24 Jan 2013
     5  #
     6  # This script simulates the 'cat -n' command with an input file specified o
n the
     7  # command line. Basically adds line numbers and formats the output appropri
ately.
     8  #
     9  if test -z "$1"; then
    10  echo Error:filename parameter expected.
    11  exit
    12  else
    13  count=0
    14  while read line; do
    15  ((count++))
    16  printf "%6d  %sn" "$count" "$line"
    17  done < $1
    18  fi
```