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#!/bin/sh
#Question:
# Write a shell script to to accept a integer from the terminal and convert to
# octal number. Number 21 in decimal = 25 in octal(Convert base 10 to base 8).
# Always write assumptions made, either as comment or as description
# and keep the rough work, do not erase it out
# accept a integer from the terminal
  echo "Enter an integer: '
  read num
         Its shell script, use $ to get value of variable ,
        use calculator bc , to find base 8 representation of entered base 10 number And enclose in backquote `` to imply its command and not just a string
#
  octalNum=` echo "obase=8; $num" | bc `
  echo "$num in base 10 = $octalNum in base 8"
# 0R
# using while loop
  temp=$num # save a copy of number
octalNum="" # initialize octal to empty string
  while [ $temp -ne 0 ] #while number not 0, divide by 8, remainder is digit in
     do # number's octal representation, append remainder to a octal number
remainder=` expr $temp % 8 ` # get last digit in remainder
temp=` expr $temp / 8 ` # then exclude last digit from number
       octalNum=` echo "$remainder$octalNum"
     done
  echo "$num in base 10 = $octalNum in base 8"
```