```sh
#!/bin/sh
#Question:
# Write a shell script to to accept a integer from the terminal and check if its a
#     palindrome. A number is palindrome if the reverse of the number turns out to
#     be the same number. 12321, whose reverse is 12321, which is the original
#     number, is a palindrome. Number 12345 is not a palindrom as its reverse is
#     54321 ≠ original number.

# 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

# Content can be reversed using command rev ,  reverse lines characterwise
#   As the datatype is decided during run, loosely typed programming language
#     use rev to find reverse of number num, considering num as string

#       Its shell script, use $ to get value of variable ,
#       enclose in backquote ` ` to imply its commands and not just string

   reverse=` echo $num | rev `

   echo "$num is "
   if [ $num = $reverse ]  # string comparision using = , instead of == as in C
     then
       echo "a palindrome"
   else
       echo "not a palindrome"
   fi

# or using while loop , consider num as number, find reverse,
#   then compare with original

   reverse=0      #initialize reverse
   temp=$num      #save num in another variable

   while [  $temp -ne 0  ]
     do                           # escape * and use of ` expr ` to evaluate
       reverse=` expr  $reverse \* 10   +   $temp % 10 `  # extract last digit
                                           # and add to existing reverse
       temp=` expr $temp / 10 `  # remove last digit
     done

   echo "$num is "
   if [ $num = $reverse ]  # string comparision using = , instead of == as in C
     then
       echo "a palindrome"
   else
       echo "not a palindrome"
   fi
```