# Written by- Krish Hazarika 10376173 Edith Cowan University

# Script name- guessAge.sh

# Purpose - This script will request an integer value input [20 - 70]

# If the input is between 20-70 then input data will be compared to randomly

# generate number between 20-70. If the user input is higher than

# generated number, the script will display "your answer is high".

# Similarly, if the user input smaller than the generated number,

# the script will display "your answer is low". Lastly, if the input is

# equivalent to the generated number, then the script will display

# "you won man, answer is X" (X| x is an element of set of numbers Y {20,21,....,70,

# | x>=20 and x<=70}).

#!/bin/bash

ans=$(shuf -i20-70 -n1) #function generates a number between (20-70)

while true; do #using a while loop because the number of iterations is not known.

echo -n "Enter age between 20-70: “ #Prompts user to input an integer between (20 - 70)

read VAR #Stores the input provided by the user into a variable called VAR.

if [[ $VAR =~ ^[+-]?[0-9]\*$ ]] && [[ $VAR -ge 20 ]] && [[ $VAR -le 70 ]] #validates user input else it will request user for a good input

then

if [ $VAR -eq $ans ] #check if VAR is equal to ans

then

echo "you won man, answer is $VAR" #Notifies user about guessing the right age

break #Ends the while loop

exit 0

elif [ $VAR -gt $ans ] #checks if VAR is greater than ans

then

echo "you answer is high"

else

echo "you answer is low"

fi

else

echo "Enter a number (20-70)!!!" #requests user to input a valid integer.

fi

done

