

Conditional Statements (If/Then)

Guess Your Age – Grade Sheet (50 pts.)



Overview: This is a very interesting program because it will not only introduce you to Conditionals, the most common being "If/Then" statements, but you will get to work with a multitude of new types of code that we have not seen or used before.

Guide:

View the model on the class website. *Note: The user's age is '51' in the model.*

Use the code provided below to create the "Guess Your Age" game. Colored code is provided online for you – this might be easier to read.

Gradesheet

Recreate the Program "Guess Your Age." Replicate the program being shown and provided to you.	25 pts.
Explain how each line of code functions in the program.	25 pts.

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when clicked
  play sound xylo2
  wait 1 secs
  say Hello! I heard you had a birthday recently and I wanted to see if I could guess your age. for 5 secs
  say Ready? for 2 secs
  say Just answer Yes or No in the field below for 3 secs
  set lower bound to 1
  set upper bound to 100
  set new question age to round (lower bound + upper bound / 2)
  set question age to 0
  repeat until (question age = new question age)
    set question age to new question age
    ask join join Are you older than question age ? and wait
    if (letter 1 of answer = y) then
      set lower bound to question age + 1
    else
      set upper bound to question age
    set new question age to round (lower bound + upper bound / 2)
  ask join join Are you upper bound ? and wait
  if (letter 1 of answer = y) then
    say Yay! I've guessed your age! for 2 secs
  else
    say join join So you're lower bound ! for 2 secs
  stop all sounds
  play sound guitar chords2
  wait 0.5 secs
  say I hope you had an enjoyable birthday. Thanks for playing. for 6 secs
  
```