

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

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| 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
  
```