

Happy Birthday – Guess Your Age Conditionals Gradesheet – (50 pts.)

Goal: This is a very interesting Program because it not only introduces Conditionals, which is a programming term for “If/Then” Statements, but this Program introduces a multitude of new types of code that we have not seen or used before. So buckle in and enjoy the ride because this program is going to open up many new coding possibilities for you!

View the Model “Happy Birthday.” And The Grade Sheet (Screenshot!)

1. Recreate the Program “Happy Birthday – Guess Your Age.” Replicate the Model being provided to you. Note: You are being provided the code...just copy it.	25 pts.
2. Explain how each line of code functions in the program	25 pts.

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when green flag 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
  
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