🤔Booleans and If Statements: Exercises

Q1) Kate's cat, Roary, loves catching moths. Write a program that determines whether or not it is time for Roary catch moths.

Input	**Output**
`moths_in_house = True`	`Get the moths!`
`moths_in_house = False`	`No threats detected.`

Q2) But Roary can't actually get the moths by herself! Amend the previous program to determine whether or not it is time for Roary to go moth hunting.

Input	**Output**
`moths_in_house = True` `mitch_is_home = True`	`Hoooman! Help me get the moths!`
`moths_in_house = False` `mitch_is_home = False`	`No threats detected.`
`moths_in_house = True` `mitch_is_home = False`	`Meooooooooooooow! Hissssss!`
`moths_in_house = False` `mitch_is_home = True`	`Climb on Mitch.`

Q3) Write a program that implements the algorithm for Red Light Cameras.

Input	**Output**
`light_colour = "Red"` `car_detected = False`	`Do nothing.`
`light_colour = "Red"` `car_detected = True`	`Flash!`
`light_colour = "Green"` `car_detected = False`	`Do nothing.`
`light_colour = "Green"` `car_detected = True`	`Do nothing.`
`light_colour = "Amber"` `car_detected = False`	`Do nothing.`
`light_colour = "Amber"` `car_detected = True`	`Do nothing.`

Q4) Write a program that asks the user for their height, and determine whether or not they are tall enough to ride the rollercoaster, which has a height requirement of 120cms.

Input	**Output**
`120`	`Hop on!`
`50`	`Sorry, not today :(`
`191`	`Hop on!`