## <u>Inputs</u>

- Store width as widthOfHouse
- Store length as lengthOfBase
- Store height as heightOfHouse
- Store number of windows as numberOfWindows
- Store window dimensions as windowLength and windowWidth
- Store number of doors as numberOfDoors
- Store door dimensions as doorWidth and doorLength
- Store the cost of paint per square foot as costPerSquareFoot

## **Calculations**

- Find square feet of side of house
  - lengthOfBase \* widthOfHouse
  - squareFeetOfHouse = lengthOfBase \* widthOfHouse
- Find square feet of height before house
  - lengthOfBase \* widthOfHouse + ½ (lengthOfBase (heightOfHouse widthOfHouse))
  - squareFeetOfHeightOfHouse =
    lengthOfBase \* widthOfHouse + ½
    (lengthOfBase(heightOfHouse-widthOfHouse))
- Find the area of the door and windows and subtract to final area to paint
  - doorSubtraction = numberOfDoors \* (doorWidth \* doorLength)
  - windowSubtraction = numberOfWindows \* (windowWidth \* windowLength)
  - squareFeetToPaint = tallSide + normalSide doorSubtraction windowSub