```xml
<?xml version='1.0' encoding='UTF-8'?>
<!-- Created with Fritzing (http://www.fritzing.org/) -->
<netlist sketch="case_study_arduino.fzz" date="Thu Aug 23 17:04:02 2018">
 <net>
  <connector id="connector0" name="gnd">
   <part title="Basic Servo" id="18709310" label="J3"/>
  </connector>
  <connector id="connector89" name="GND">
   <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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  <connector id="connector0" name="gnd">
   <part title="Basic Servo" id="18707750" label="J2"/>
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  <connector id="connector57" name="GND">
   <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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  <connector id="connector88" name="GND">
   <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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  <connector id="connector0" name="cathode">
   <part title="Red (633nm) LED" id="18687990" label="LED3"/>
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  <connector id="connector0" name="cathode">
   <part title="Infrared (850nm) LED" id="18684330" label="LED2"/>
  </connector>
  <connector id="connector11" name="GND 2">
   <part title="Humidity and Temperature Sensor RHT03" id="18686670" label=
      "RHT1"/>
  </connector>
  <connector id="connector0" name="GND">
   <part title="TSOP312.., 314.." id="18684100" label="IR2"/>
  </connector>
  <connector id="connector0" name="cathode">
   <part title="Infrared (850nm) LED" id="18683090" label="LED1"/>
  </connector>
  <connector id="connector0" name="GND">
   <part title="TSOP312.., 314.." id="18683180" label="IR1"/>
  </connector>
  <connector id="connector1" name="Vs">
   <part title="TSOP312.., 314.." id="18684100" label="IR2"/>
  </connector>
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  <connector id="connector1" name="vcc">
   <part title="Basic Servo" id="18709310" label="J3"/>
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  <connector id="connector87" name="5V">
   <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
  </connector>
  <connector id="connector1" name="vcc">
   <part title="Basic Servo" id="18707750" label="J2"/>
  </connector>
  <connector id="connector1" name="Vs">
   <part title="TSOP312.., 314.." id="18683180" label="IR1"/>
  </connector>
  <connector id="connector1" name="Pin 1">
   <part title="10kΩ Resistor" id="18686700" label="R5"/>
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  <connector id="connector8" name="Vcc">
   <part title="Humidity and Temperature Sensor RHT03" id="18686670" label=
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```xml
      "RHT1"/>
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</net>
<net>
 <connector id="connector2" name="pulse">
  <part title="Basic Servo" id="18709310" label="J3"/>
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 <connector id="connector56" name="D13/SCK">
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 <connector id="connector2" name="pulse">
  <part title="Basic Servo" id="18707750" label="J2"/>
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 <connector id="connector55" name="D12/MISO">
  <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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  <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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 <connector id="connector1" name="Pin 1">
  <part title="220Ω Resistor" id="18688300" label="R6"/>
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 <connector id="connector67" name="D6 PWM">
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 <connector id="connector9" name="Data-signal">
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      "RHT1"/>
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 <connector id="connector0" name="Pin 0">
  <part title="10kΩ Resistor" id="18686700" label="R5"/>
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 <connector id="connector63" name="D2">
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 <connector id="connector0" name="Pin 0">
  <part title="2kΩ Resistor" id="18684550" label="R2"/>
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 <connector id="connector64" name="D3 PWM">
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 <connector id="connector0" name="Pin 0">
  <part title="220Ω Resistor" id="18685040" label="R4"/>
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 <connector id="connector52" name="D9 PWM">
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 <connector id="connector0" name="Pin 0">
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```xml
      <part title="2kΩ Resistor" id="18683560" label="R1"/>
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     <connector id="connector53" name="D10 PWM/SS">
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     <connector id="connector0" name="Pin 0">
      <part title="220Ω Resistor" id="18684890" label="R3"/>
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     <connector id="connector2" name="Data">
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     <connector id="connector1" name="Pin 1">
      <part title="220Ω Resistor" id="18685040" label="R4"/>
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    <net>
     <connector id="connector2" name="Data">
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      <part title="220Ω Resistor" id="18684890" label="R3"/>
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     <connector id="connector0" name="Pin 0">
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      <part title="Red (633nm) LED" id="18687990" label="LED3"/>
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     <connector id="connector10" name="GND 1">
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       "RHT1"/>
     </connector>
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     <connector id="connector1" name="Pin 1">
      <part title="2kΩ Resistor" id="18683560" label="R1"/>
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     <connector id="connector1" name="anode">
      <part title="Infrared (850nm) LED" id="18683090" label="LED1"/>
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    </net>
    <net>
     <connector id="connector1" name="Pin 1">
      <part title="2kΩ Resistor" id="18684550" label="R2"/>
     </connector>
     <connector id="connector1" name="anode">
      <part title="Infrared (850nm) LED" id="18684330" label="LED2"/>
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```xml
      </connector>
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    <net>
     <connector id="connector0" name="A0">
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     <connector id="connector66" name="D5 PWM">
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     <connector id="connector65" name="D4">
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    <net>
     <connector id="connector62" name="D1/TX">
      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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    <net>
     <connector id="connector61" name="D0/RX">
      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
     </connector>
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     <connector id="connector86" name="3V3">
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     <connector id="connector60" name="A5/SCL">
      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
     </connector>
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      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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     <connector id="connector84" name="ioref">
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     <connector id="connector59" name="A4/SDA">
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     <connector id="connector4" name="A4/SDA">
      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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```xml
      <part title="Arduino Uno (Rev3)" id="18683060" label="Part1"/>
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   </net>
   <net>
    <connector id="connector54" name="D11 PWM/MOSI">
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    <connector id="connector2" name="A2">
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