

# 基于机器人的实践

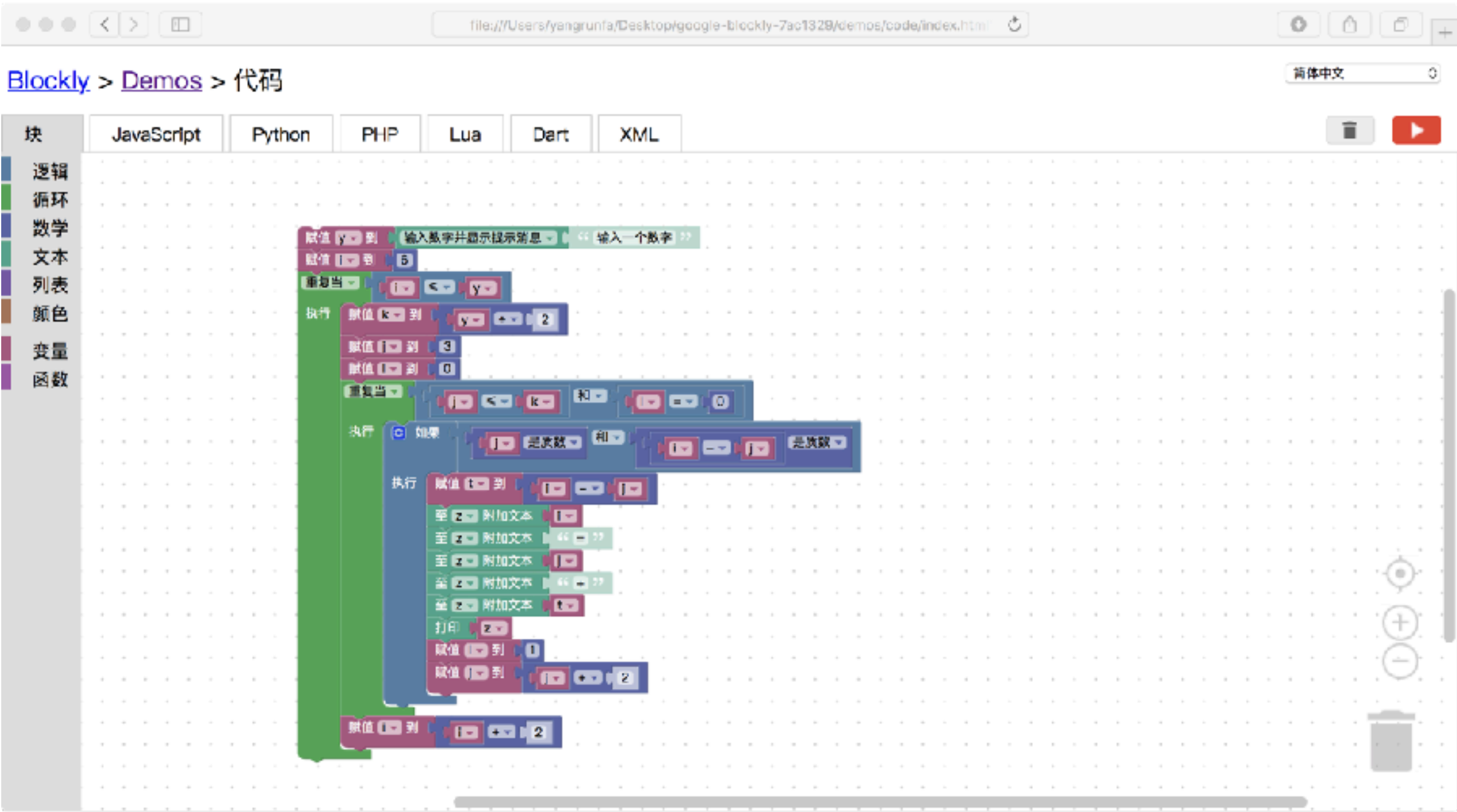
学院：数学与统计学院 年级：大一

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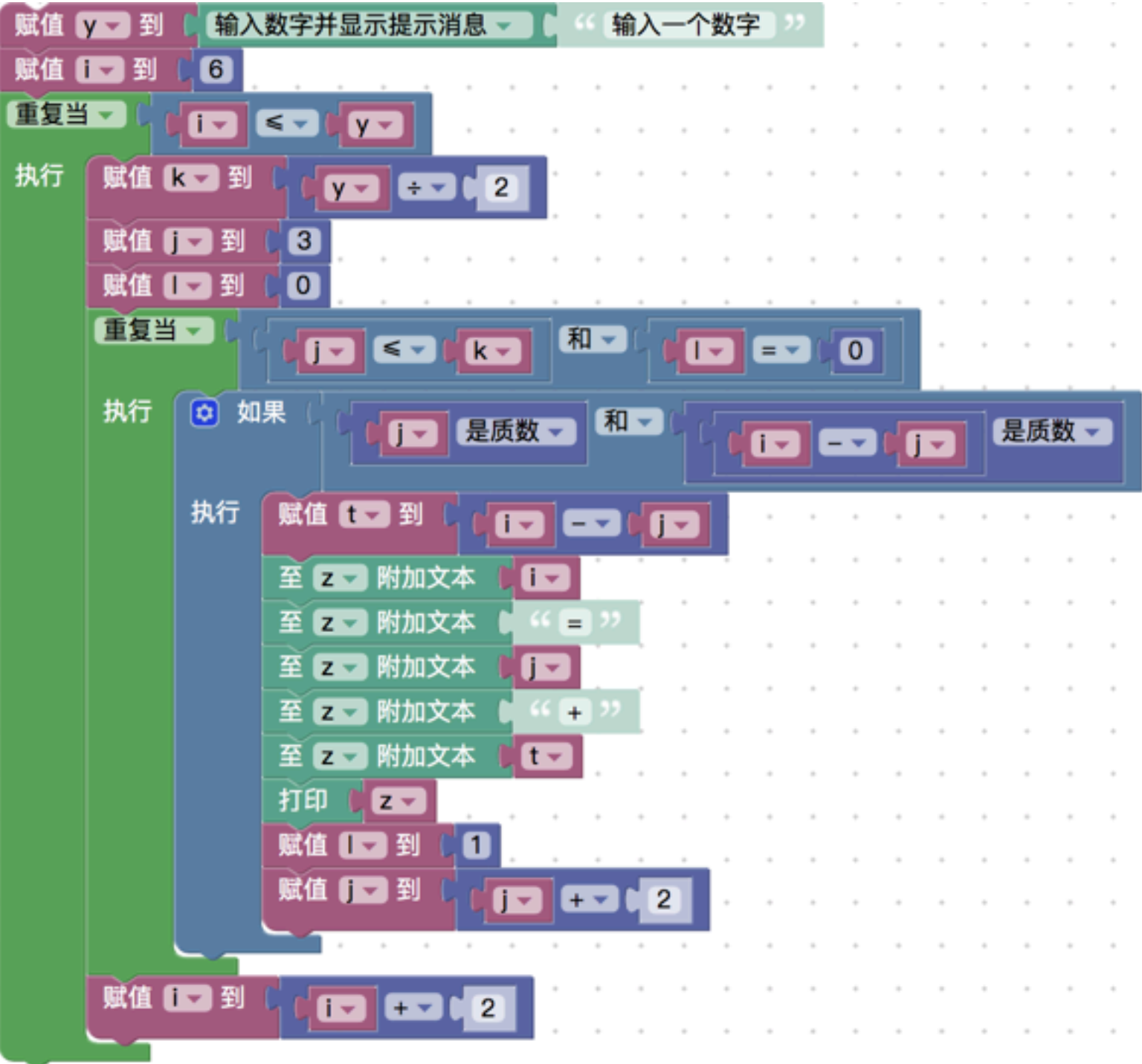
# 案例说明

## 验证哥德巴赫猜想

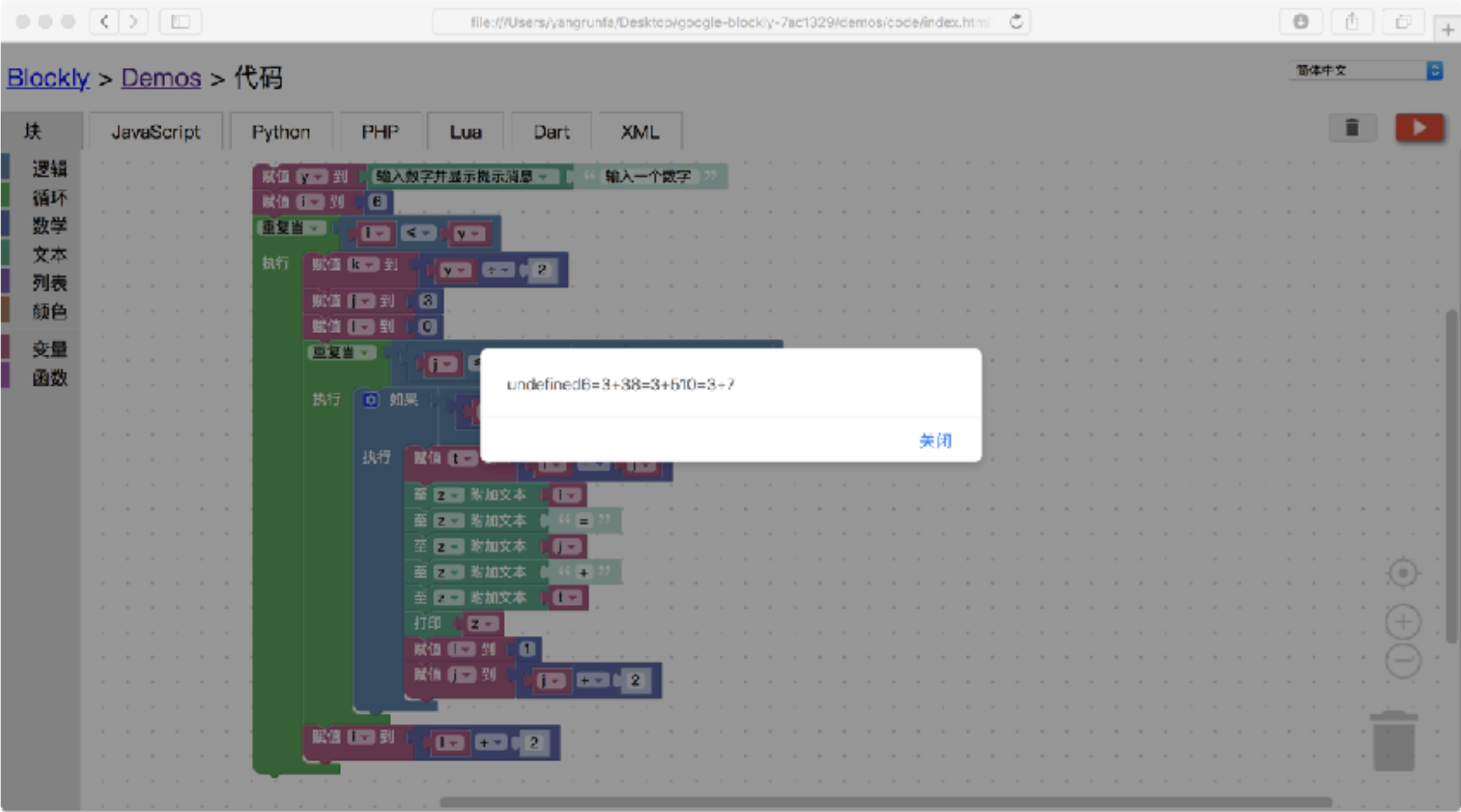
# 界面截图



# 模块截图



# 运行结果



# xml代码

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块JavaScriptPythonPHPLuaJavXML

```
xml xmlns="http://www.w3.org/1999/xhtml">
  <variables>
    <variable type="" id="M7_Gld9D+FS=9GJ1Y"></variable>
    <variable type="" id="bJ1REz2IHfU_2bGzXQ"></variable>
    <variable type="" id="1kzBz/A4kCSGB1SWI"></variable>
    <variable type="" id="xV,*qg-bl+cV+;ZBvK2"></variable>
    <variable type="" id="8pTtV,%xStyoQ[R-9+></variable>
    <variable type="" id="c/19z15_gG6(AjF.0"></variable>
    <variable type="" id="Lw81D?HEk7N_GhW"></variable>
    <variable type="" id="t;-k$pwAOdneJ?;Y"></variable>
  </variables>
  <block type="variables_set" id="na-18rjmw$H0MBh?Y" x="188" y="13">
    <field name="VAR" id="1kzBz/A4kCSGB1SWI" variabletype=""></field>
    <value name="VALUE">
      <block type="text_prompt_ext" id="Nw-03YU/1vC1Ks$e">
        <mutation type="TEXT"></mutation>
        <field name="TYPE">TEXT</field>
        <value name="TEXT">
          <shadow type="text" id="3ZVxLcJ0BxwWwVvJ0">
            <field name="TEXT">输入一个数字</field>
          </shadow>
        </value>
      </block>
    </value>
  </block>
  <block type="variables_set" id="SC3LugN6Uz2/rn?<=">
    <field name="VAR" id="xV,*qg-bl+cV+;ZBvK2" variabletype=""></field>
    <value name="VALUE">
      <block type="math_number" id="*/4vMB8-BI+aq/8">
        <field name="NUM">5</field>
      </block>
    </value>
  </block>
  <block type="controls_whileUntil" id="TtQJH,*QwFCH6F7E?"">
    <field name="MODE">WHILE</field>
```

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块JavaScriptPythonPHPLuaJavXML

```
<value name="BOOL">
  <block type="logic_compare" id="?PMuhMEksh8WuQ0- P">
    <field name="OP">LTE</field>
    <value name="A">
      <block type="variables_get" id="1kzBz/A4kCSGB1SWI">
        <field name="VAR" id="1kzBz/A4kCSGB1SWI" variabletype=""></field>
      </block>
    </value>
    <value name="B">
      <block type="variables_get" id="LcW5/*?hZ0+2M5dTy">
        <field name="VAR" id="1kzBz/A4kCSGB1SWI" variabletype=""></field>
      </block>
    </value>
  </block>
  </value>
  <statement name="DO">
    <block type="variables_set" id="JgC7bdS-0gQJZ1/N?">
      <field name="VAR" id="M7_Gld9D+FS=9GJ1Y" variabletype=""></field>
      <value name="VALUE">
        <block type="math_arithmetic" id="/*$4q?Pwv96a[-?]>
          <field name="OP">ONCE</field>
          <value name="A">
            <shadow type="math_number" id="N1xclE#G6uyQ8.1">
              <field name="NUM"></field>
            </shadow>
          <block type="variables_get" id="8wLrBay0E-[2Ts+h">
            <field name="VAR" id="1kzBz/A4kCSGB1SWI" variabletype=""></field>
          </block>
        </value>
        <value name="B">
          <shadow type="math_number" id="1zmF.6B6aIQ6zd?%v">
            <field name="NUM"></field>
          </shadow>
        </value>
      </block>
```

file:///Users/yangrunts/Desktop/google-blockly-7ac1328/demos/code/index.html

Blockly > Demos > 代码

块JavaScriptPythonPHPLuaDartXML

```
</value>
<node>
  <block type="variables_get" id="0a104ay0T70SL0Ydd1">
    <field name="VAR" id="buJREz8NtU_2aZcX0" variabletype="x">/field>
    <value name="VALUE">
      <block type="math_number" id="Ld+MzGdHrdaTupZVvt">
        <field name="NUM">9</field>
      </block>
    </value>
  </node>
  <node>
    <block type="variables_get" id="9BbQ1=Q8QUNISRN5">
      <field name="VAR" id="1p17x7x0d7ycQ[R]>9</field>
      <value name="VALUE">
        <block type="math_number" id="3FAGZd9c$Gu-/Q13">
          <field name="NUM">0</field>
        </block>
      </value>
    </node>
    <node>
      <block type="controls_whileUntil" id="zcxwqzz0fy-nKPBW">
        <field name="MODE">WHILE</field>
        <value name="DO">
          <block type="logic_operation" id="sZTCW=VWz/d8Mkd=n">
            <field name="OP">AND</field>
            <value name="A">
              <block type="logic_compare" id="iFmJJEITOLL=O/Ukx">
                <field name="OP">LTE</field>
                <value name="A">
                  <block type="variables_get" id="0AFnn0U.jp/3S0x">
                    <field name="VAR" id="buJREz8NtU_2aZcX0" variabletype="x">/field>
                  </block>
                </value>
                <value name="B">
                  <block type="variables_get" id="Gux7mN79a7y7k8262">
                    <field name="VAR" id="4W7_GcEO-FB-81J/*X" variabletype="x">/field>
                  </block>
                </value>
              </block>
            </value>
          </block>
        </value>
      </node>
    </node>
  </node>
</pre>
```

file:///Users/yangrunts/Desktop/google-blockly-7ac1328/demos/code/index.html

Blockly > Demos > 代码

块JavaScriptPythonPHPLuaDartXML

```
</value>
</block>
</value>
<value name="B">
  <block type="logic_compare" id="2W7yKSD=(A)--adW/r">
    <field name="OP">EQ</field>
    <value name="A">
      <block type="variables_get" id="7Nz1SCTzsh+0--0S_7">
        <field name="VAR" id="8p17x7x0d7ycQ[R]>9</field>
      </block>
    </value>
    <value name="B">
      <block type="math_number" id="Y4D.OvG7VYX8C[3E7W">
        <field name="NUM">0</field>
      </block>
    </value>
  </block>
</value>
</block>
</value>
</block>
</value>
<statement name="DO">
  <block type="controls_if" id="gwJezX0[38bL8C0LW">
    <value name="IF0">
      <block type="logic_operation" id="d3m0Y4W4eOX[c7p8Q">
        <field name="OP">AND</field>
        <value name="A">
          <block type="math_number_property" id="ddkHple=JGmfM3d6UW">
            <mutation divisor_input="false"></mutation>
            <field name="PROPERTY">PRIME</field>
          </block>
          <value name="NUMBER_TO_CHECK">
            <shadow type="math_number" id="p0Xn4pYts8a2C0x0">
              <field name="NUM">0</field>
            </shadow>
          </value>
          <block type="variables_get" id="MD8nnX777q178b-7x0">
            <field name="VAR" id="buJREz8NtU_2aZcX0" variabletype="x">/field>
          </block>
        </value>
      </block>
    </value>
  </block>
</statement>
</pre>
```

Blockly > Demos > 代码

JavaScript Python PHP Lua Dart XML

```
</block>
</value>
</block>
</value>
<value name="B">
<block type="math_number_property" id="u2dFK/UK2ymE70i@6dt">
<mutation divisor_input="false"></mutation>
<field name="PROPERTY">PRIME</field>
<value name="NUMBER_TO_CHECK">
<shadow type="math_number" id="1.7v7NFWt-jP66t4R">
<field name="NUM">0</field>
</shadow>
</block>
</value>
<block type="math_arithmetic" id="m+m"+3NjVh4pLCCP,r18T">
<field name="OP">MINUS</field>
<value name="A">
<shadow type="math_number" id="W_dhN3d$K-qS/jaAX">
<field name="NUM">1</field>
</shadow>
</block>
<block type="variables_get" id="fbaEQMx-.@vURrYYJw">
<field name="VAR" id="xV*dq-bh+cV; ZBvKB" variabletype=""></field>
</block>
</value>
<value name="B">
<shadow type="math_number" id="5uIC+MHGEY0N/52-f">
<field name="NUM">1</field>
</shadow>
</block>
<block type="variables_get" id="Zb-MPySV6USU.xTejQ">
<field name="VAR" id="5Jf5Ez0NHJ_2bZcXQ" variabletype=""></field>
</block>
</value>
</block>
</value>
</block>
</value>
</block>
```

Blockly > Demos > 代码

JavaScript Python PHP Lua Dart XML

```
</value>
<statement name="DOO">
<block type="variables_get" id="PYNtusa1gUcky8inWfmx">
<field name="VAR" id="L--k@pwA0k9na.0*/Y" variabletype=""></field>
<value name="VALUE">
<block type="math_arithmetic" id="5lo?_tj3aE%px8DxQ">
<field name="OP">MINUS</field>
<value name="A">
<shadow type="math_number" id="W_dhN3d$K-qS/jaAX">
<field name="NUM">1</field>
</shadow>
</block>
<block type="variables_get" id="TZLq1LawRD_yKQ-p8F">
<field name="VAR" id="xV*dq-bh+cV; ZBvKB" variabletype=""></field>
</block>
</value>
<value name="B">
<shadow type="math_number" id="5uIC+MHGEY0N/52-f">
<field name="NUM">1</field>
</shadow>
</block>
<block type="variables_get" id="fbaEQMx-.@vURrYYJw">
<field name="VAR" id="5Jf5Ez0NHJ_2bZcXQ" variabletype=""></field>
</block>
</value>
</block>
</value>
<next>
<block type="text_append" id="NoAw3Hk9(rVM4ToS">
<field name="VAR" id="L--k@pwA0k9na.0*/Y" variabletype=""></field>
<value name="TEXT">
<shadow type="text" id="cJ/+e/F=h0MYh">
<field name="TEXT"></field>
</shadow>
</block>
<block type="variables_get" id="yp8PregiN.n3GxV5U">
<field name="VAR" id="xV*dq-bh+cV; ZBvKB" variabletype=""></field>
</block>
```







**谢谢观看**