

Program examples with TI-Innovator Hub

1) To turn on the light during 5 seconds :

Define lum1()=

Prgm

:Send "SET LIGHT ON TIME 5"

:EndPrgm

2) To make the light blink :

Define lum2()=

Prgm

:Define k=1

:Request "Combien de fois?",n

:For k,1,n

: Send "SET LIGHT ON"

: Wait 0.5

: Send "SET LIGHT OFF"

: Wait 0.5

:EndFor

:EndPrgm

3) To turn on a light of a defined color :

Define couleur(r,v,b)=

Prgm

:Send "SET COLOR eval(r) eval(v) eval(b)"

:Wait 3

:Send "SET COLOR 0 0 0"

:EndPrgm

4) To produce musical notes :

Define son()=

Prgm

:RequestStr "Quelle note?",n

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:If n="do" Then
: Send "SET SOUND 262 1"
:ElseIf n="re" Then
: Send "SET SOUND 294 1"
:ElseIf n="mi" Then
: Send "SET SOUND 330 1"
:ElseIf n="fa" Then
: Send "SET SOUND 349 1"
:ElseIf n="sol" Then
: Send "SET SOUND 392 1"
:ElseIf n="la" Then
: Send "SET SOUND 440 1"
:ElseIf n="si" Then
: Send "SET SOUND 494 1"
:Else
: Send "SET COLOR.RED 1"
: Wait 1
: Send "SET COLOR 0 0 0"
:EndIf
:EndPrgm

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5) An automatic switch :

Define interrupteur()=

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Prgm
:Local b,k
:For k,1,150
:Send "READ BRIGHTNESS "
:Get b
: If b≤0.5 Then
: Send "SET LIGHT ON"
: Else
: Send "SET LIGHT OFF"
: EndIf
:EndFor
:Send "SET LIGHT OFF"
:EndPrgm

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6) Adapting to brightness alarm clock :

Define reveil()=

Prgm

:Local k,f,b

:For k,1,250

: Send "READ BRIGHTNESS "

: Get b

: f:=50+59.5*b

: Send "SET SOUND eval(f) 0.1"

:EndFor

:EndPrgm