**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

1. 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

1. 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

1. To produce musical notes :

Define son()=

Prgm:RequestStr "Quelle note?",n: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

1. An automatic switch :

Define interrupteur()=

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

1. 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