

**Reflection
on
Tuesday**

Randomly Walking Turtle

```
import turtle
import random

wn = turtle.Screen()
wn.setup(width=500, height=500)

rwt = turtle.Turtle()

while(inWindow(wn, rwt)):
    if headstails():
        rwt.left(90)           #turn left
    else:
        rwt.right(90)        #turn right

    rwt.forward(50)          #forward 50
    print(rwt.xcor(), rwt.ycor())

#turtle.bye()
print("Your Turtle has left the window")
```

```
def headstails():
    coin = random.randrange(0, 2)
    print(coin)
    if coin == 0:
        return(True)
    else:
        return(False)

def inWindow(win, turt):
    leftBound = -(win.window_width() / 2)
    rightBound = win.window_width() / 2
    topBound = win.window_height() / 2
    bottomBound = -(win.window_height() / 2)

    tX = turt.xcor()
    tY = turt.ycor()

    stillIn = True
    if tX > rightBound or tX < leftBound:
        stillIn = False
    if tY > topBound or tY < bottomBound:
        stillIn = False

    return stillIn
```

```
def inWindow(win, turt):
    stillIn = True

    if turt.xcor() > win.window_width() / 2 or turt.xcor() < -(win.window_width() / 2):
        stillIn = False
    elif turt.ycor() > win.window_height() / 2 or turt.ycor() < -(win.window_height() / 2):
        stillIn = False

    return stillIn
```

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    return stillIn
```

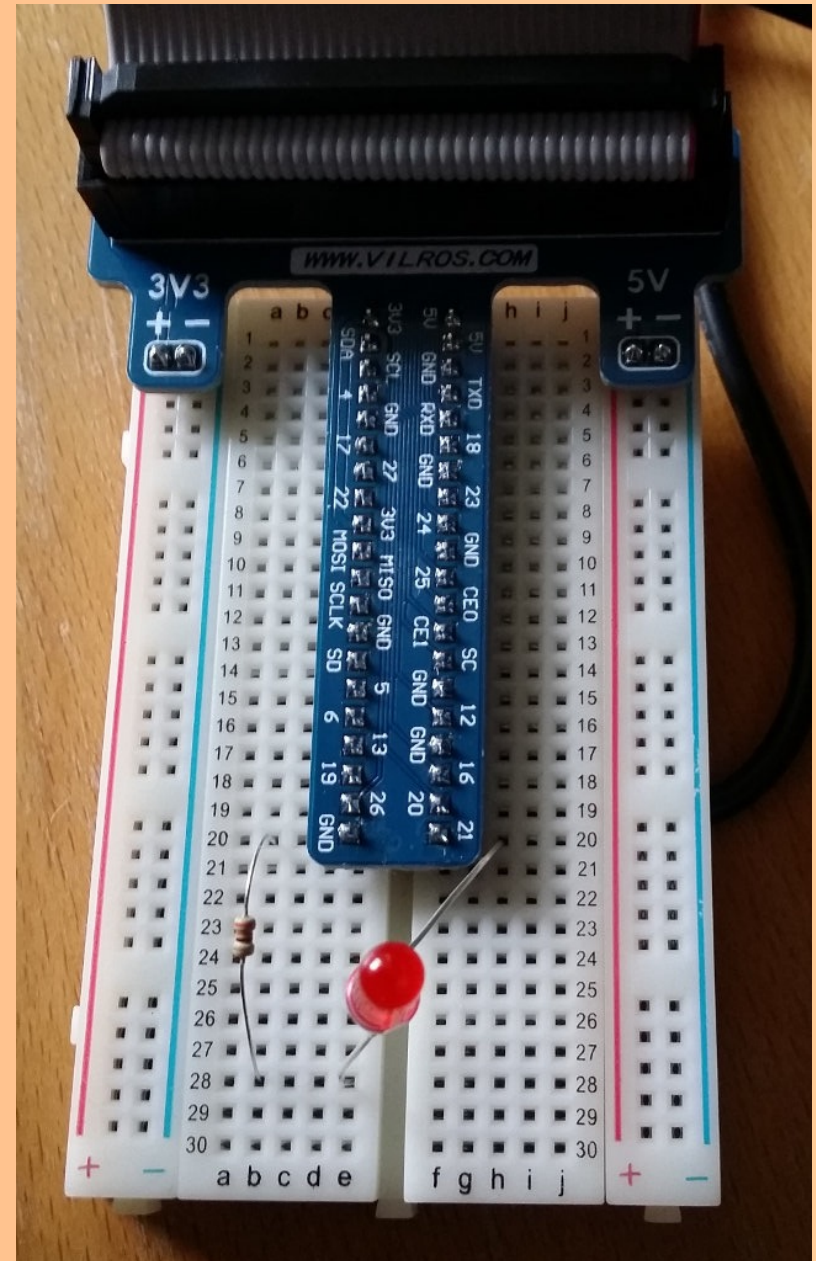
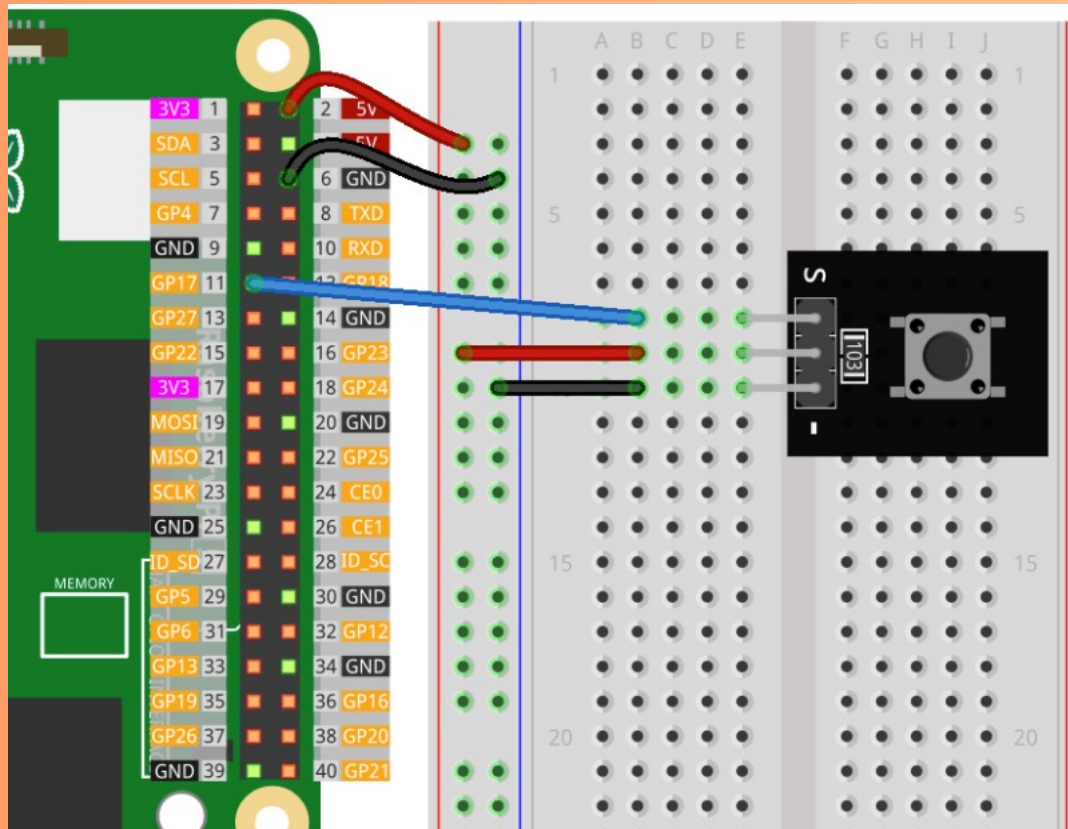
Success Model of Programming

Start small

Make small changes

Keep the program working

Power, Ground, Sunfounder



Modules

```
import PCF8591 as ADC # Import PCF8591 module  
import time # Import time for delay
```

Modules

•Sunfounder Github

- https://docs.sunfounder.com/projects/umsk/en/latest/download_code.html
- trickel.org

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•Modules need to be in directory where code is

Superbly
Excellent!



