from microbit import \*

logTime = 0

xAccel = accelerometer.get\_x()

logData = ""

readInterval = 250

fileName = "acceldata.csv"

def readData(fileName):

with open (fileName) as myFile:

data = myFile.read()

return(str(data))

def writeData(fileName, data):

with open (fileName,'w') as myFile:

data= str(data)

myFile.write(data)

while True:

display.show(Image.ARROW\_E)

if button\_a.is\_pressed():

display.show("X")

sleep(1000)

display.clear()

break

if button\_b.is\_pressed():

display.show("W")

logData = "Time,Acceleration\r"

writeData(fileName, logData)

for x in range(40):

logData = readData(fileName)

xAccel = str(accelerometer.get\_x())

logTime = x/(1000/readInterval)

logData = logData + str(logTime) + "," + xAccel + "\r"

writeData(fileName, logData)

logData = readData(fileName)

sleep(readInterval)

if button\_a.is\_pressed():

display.show("X")

sleep(1000)

display.clear()

break