temperature_changed_myBirthday

July 30, 2021

[50]:
```
import csv
import matplotlib.pyplot as plt
```

[51]:
```
this = TemperatureChangedMyBirthday()
```

[52]:
```
this.read_data()
```

[52]:
```
<_csv.reader at 0x7fc8e4822d60>
```

[81]:
```
#print(this.show_highest_temperature())
```

[54]:
```
 #this.save_highest_temperature()
```

[55]:
```
#this.highest_temperatures_my_birthday()
```

[56]:
```
data = csv.reader(open('data/seoul.csv', 'rt', encoding='UTF-8'))
```

[57]:
```
next(data)
```

[57]:
```
[' ', ' ', '  (℃)', '  (℃)', '  (℃)']
```

[58]:
```
ls = list(data)
```

[82]:
```
#print([i for i in ls])
```

[60]:
```
'''
next() function       header
comsumer          header    .
row[] =  , ,  (℃),  (℃),  (℃)     [-1] .
data : [] = list()    list   data  list()
,
data : [] = None
def save_highest_temperature(self):
    data = list()

data : [] = list
'''
```

[60]:
```
'\nnext()  function       header    \ncomsumer           header
  .\nrow[] =  , ,  (℃),  (℃),  (℃)     [-1] .\ndata : [] = list()
list   data  list()     \n ,                    \ndata : [] =
None\ndef save_highest_temperature(self):\n    data = list()\n
      \ndata : [] = list\n'
```

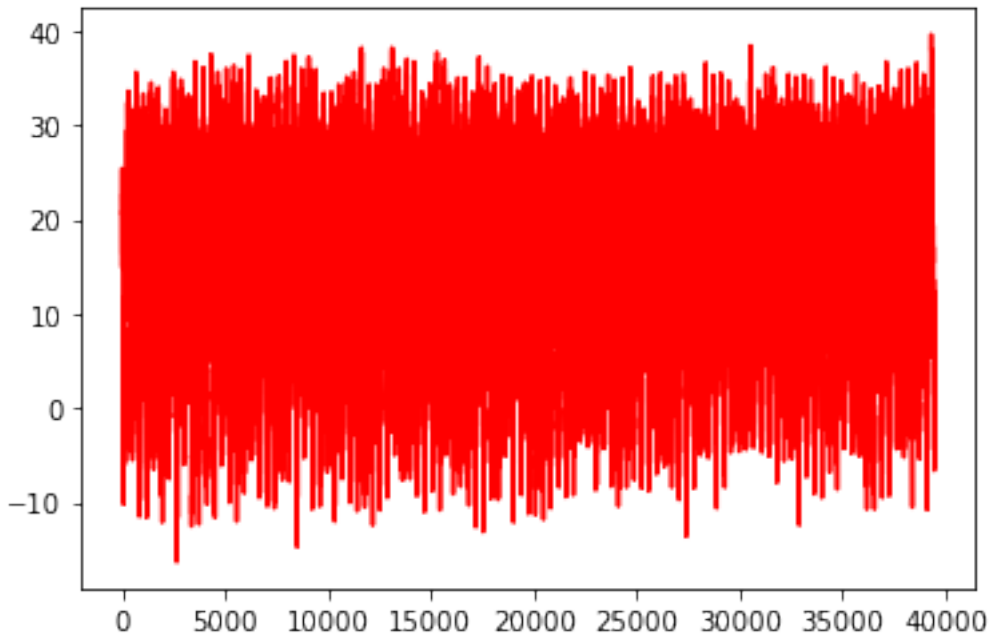
[80]:
```
#print([i[-1] for i in ls])#show_highest_temperature
```

[62]:
```
highest_temperature = []
[highest_temperature.append(float(i[-1])) for i in ls if i[-1] != '']
print({len(highest_temperature)})
```

```
{39463}
```

[64]:
```
plt.plot(highest_temperature, 'r')
plt.figure(figsize=(10, 2))
```

[64]:
```
<Figure size 720x144 with 0 Axes>
```



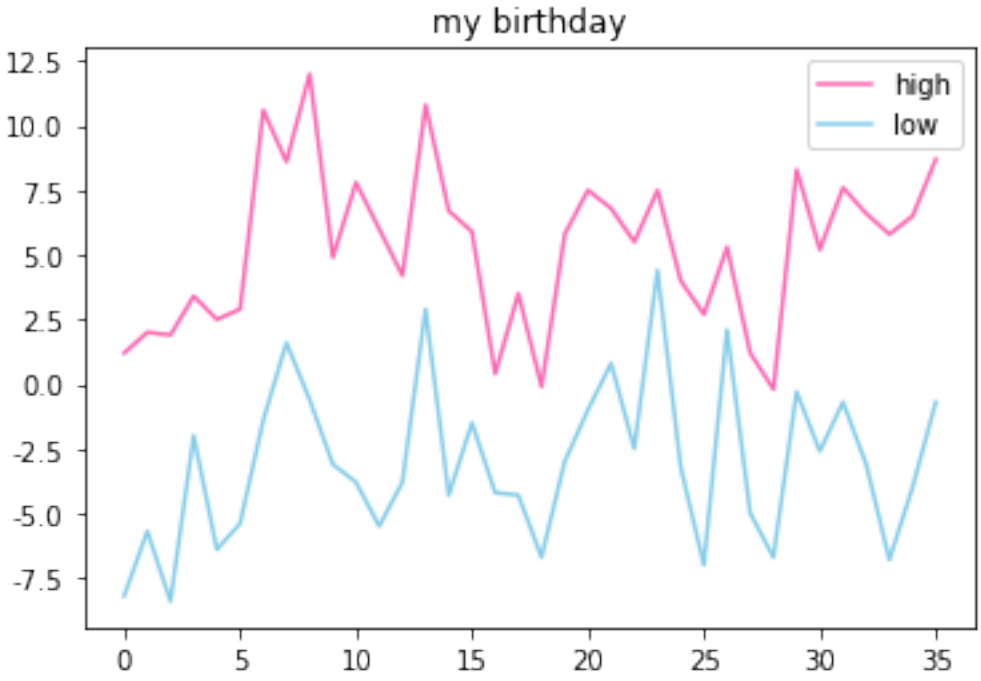

```
<Figure size 720x144 with 0 Axes>
```

[74]:
```
high = [] #
low = [] #
for i in ls:
    if i[-1] != '' and i[-2] != '': #    csv      -1
```

```
        if 1983 <= int(i[0].split('-')[0]): #    csv  0            0   1983
↪       split()
            if (i[0].split('-')[1] == '02') and i[0].split('-')[2] == '14':#
↪csv  0          1       02       2     14
                high.append(float(i[-1])) #     -1      high
                low.append(float(i[-2])) #     -2      low
```

[79]:
```
plt.rc('font', family='Malgun Gothic')
plt.rcParams['axes.unicode_minus'] = False
plt.title('my birthday')
plt.plot(high, 'hotpink', label='high')
plt.plot(low, 'skyblue', label='low')
plt.legend()
```

[79]: <matplotlib.legend.Legend at 0x7fc8e54abe20>



[ ]: