

changedtemperature_my_birthday

July 30, 2021

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

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

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

```
[7]: [' ', ' ', ' (C)', ' (C)', ' (C)']
```

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

```
[9]: print([i[-1] for i in ls])
```

```
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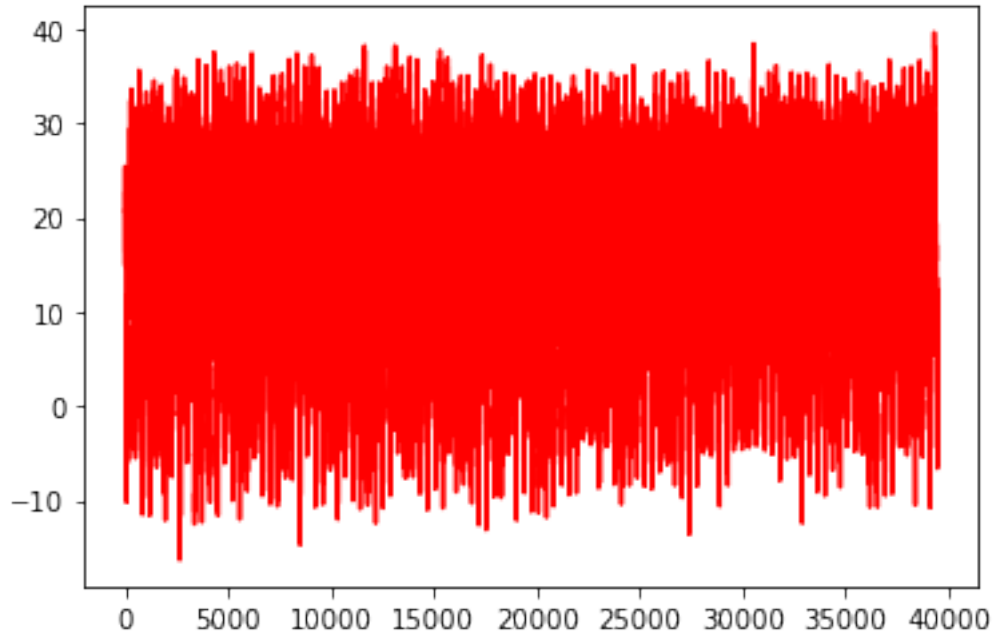
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 '9.5', '10.4', '9.8', '12.4', '7.5', '3.1', '5.2', '3', '-6.5', '-6.6', '-3',
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 '3', '7.2', '8', '7.6', '5.3', '2.6', '-1.1', '4']

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

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```
[12]: plt.plot(highest_temperature, 'r') #red
plt.figure(figsize=(20, 2))
```

[12]: <Figure size 1440x144 with 0 Axes>



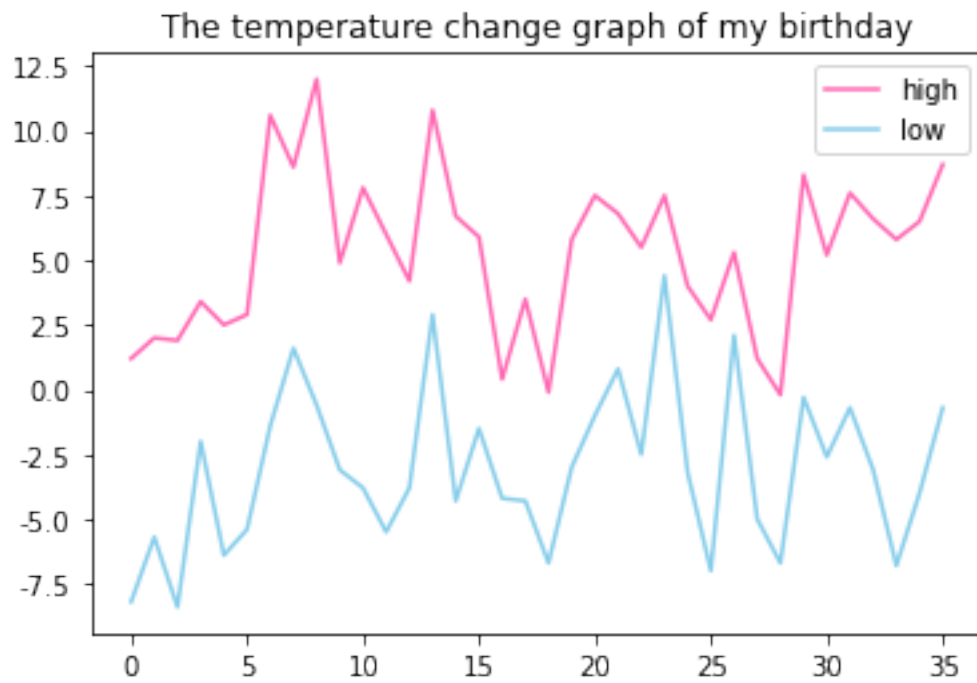
<Figure size 1440x144 with 0 Axes>

```
[13]: high = [] #
low = [] #
```

```
[14]: for i in ls:
    if i[-1] != '' and i[-2] != "":
        if 1983 <= int(i[0].split('-')[0]):
            if i[0].split('-')[1] == "02" and i[0].split('-')[2] == "14":
                high.append(float(i[-1]))
                low.append(float(i[-2]))
```

```
[17]: plt.rc('font', family="Malgun Gothic")
plt.rcParams['axes.unicode_minus']=False
plt.title('The temperature change graph of my birthday')
plt.plot(high, 'hotpink', label='high')
plt.plot(low, 'skyblue', label='low')
plt.legend()
```

[17]: <matplotlib.legend.Legend at 0x7fdcf29484f0>



[]: