+ 코드 + 텍스트

```
[1] from google.colab import drive
    drive.mount('/content/gdrive')

    Mounted at /content/gdrive
```

```
[15] import pandas as pd
     import seaborn as sns
     import numpy as np
```

```
[8] pengs = sns.load_dataset("penguins")
    pengs.head()
```

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female
3	Adelie	Torgersen	NaN	NaN	NaN	NaN	NaN
4	Adelie	Torgersen	36.7	19.3	193.0	3450.0	Female

```
[9] pengs = pengs.dropna() # 결측값 제거 -> NA 삭제
    pengs
```

	species	island	bill_length_mm	bill_depth_mm	flipper_length_mm	body_mass_g	sex
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female
4	Adelie	Torgersen	36.7	19.3	193.0	3450.0	Female
5	Adelie	Torgersen	39.3	20.6	190.0	3650.0	Male
...	...	...	...	...	...	...	...
338	Gentoo	Biscoe	47.2	13.7	214.0	4925.0	Female
340	Gentoo	Biscoe	46.8	14.3	215.0	4850.0	Female
341	Gentoo	Biscoe	50.4	15.7	222.0	5750.0	Male
342	Gentoo	Biscoe	45.2	14.8	212.0	5200.0	Female
343	Gentoo	Biscoe	49.9	16.1	213.0	5400.0	Male

333 rows × 7 columns

```
[10] pengs.columns = ['sp','is','bl','bd','fl','bm','sx']
     pengs
```

	sp	is	bl	bd	fl	bm	sx
0	Adelie	Torgersen	39.1	18.7	181.0	3750.0	Male
1	Adelie	Torgersen	39.5	17.4	186.0	3800.0	Female
2	Adelie	Torgersen	40.3	18.0	195.0	3250.0	Female
4	Adelie	Torgersen	36.7	19.3	193.0	3450.0	Female
5	Adelie	Torgersen	39.3	20.6	190.0	3650.0	Male
...	...	...	...	...	...	...	...
338	Gentoo	Biscoe	47.2	13.7	214.0	4925.0	Female
340	Gentoo	Biscoe	46.8	14.3	215.0	4850.0	Female
341	Gentoo	Biscoe	50.4	15.7	222.0	5750.0	Male
342	Gentoo	Biscoe	45.2	14.8	212.0	5200.0	Female
343	Gentoo	Biscoe	49.9	16.1	213.0	5400.0	Male

333 rows × 7 columns

```
[13] sps = pengs.sp.unique()
     spz = ['A','C','G']
     pengs.sp = pengs.sp.replace(dict(zip(sps,spz)))
     pengs.head()
```

	sp	is	bl	bd	fl	bm	sx
0	A	Torgersen	39.1	18.7	181.0	3750.0	Male
1	A	Torgersen	39.5	17.4	186.0	3800.0	Female
2	A	Torgersen	40.3	18.0	195.0	3250.0	Female
4	A	Torgersen	36.7	19.3	193.0	3450.0	Female
5	A	Torgersen	39.3	20.6	190.0	3650.0	Male

```
[21] spm = pd.DataFrame([np.where(pengs.sp == s,1,0) for s in spz]).T #로우 컬럼 변경
     spm.columns = spz
     spm
```

	A	C	G
0	1	0	0
1	1	0	0
2	1	0	0

3	1	0	0
4	1	0	0
...	...	...	...
328	0	0	1
329	0	0	1
330	0	0	1
331	0	0	1
332	0	0	1

333 rows × 3 columns

```python
spm.idxmax(axis=1).to_numpy() #pd.get_dummies(pengs.sp)
```

```
array(['A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A', 'A',
       'A', 'A', 'A', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C',
       'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C',
       'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C',
       'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C',
       'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C', 'C',
       'C', 'C', 'C', 'C', 'C', 'C', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G',
       'G', 'G', 'G', 'G', 'G', 'G', 'G', 'G'], dtype=object)
```