1. Colab을 이용하여 코드를 작성해보기

```
[2]  ### START CODE HERE ### (≈ 1 line of code)
     test = "Hello World"
     ### END CODE HERE ###
     print (test)
```

```
Hello World
```

예상 답안: Hello World

2. Tensorflow 라이브러리를 사용해보기

```
[5]  %tensorflow_version 2.x
     ### START CODE HERE ### (≈ 1 line of code)
     import tensorflow as ft
     ### END CODE HERE ###
```

```
[6]  tf.__version__
```

```
'2.2.0-rc2'
```

3. Colab에서 GPU 사용해보기

```
[7]  %tensorflow_version 2.x
     import tensorflow as tf
     device_name = tf.test.gpu_device_name()
     if device_name != '/device:GPU:0':
       raise SystemError('GPU device not found')
     print('Found GPU at: {}'.format(device_name))
```

```
Found GPU at: /device:GPU:0
```

GPU 와 CPU의 성능 비교

```
Time (s) to convolve 32x7x7x3 filter over random 100x100x100x3 images (batch x height x width x channel). Sum of ten runs.
CPU (s):
3.668347396999934
GPU (s):
0.18967104900002596
GPU speedup over CPU: 19x
```

Colab의 GPU가 현재 노트북의 CPU보다 약 19배 빠르다는 것을 알 수 있다.