In [1]:
```
import numpy as np
from scipy import stats
from scipy.stats import norm
```

In [2]:
```
# Apply One-Sample One-Tail z-test
```

In [3]:
```
z_scores=(0.046-0.05)/(np.sqrt((0.05*(1-0.05))/2000))
z_scores
```

Out[3]:
```
-0.820782681668124
```

In [4]:
```
# Find Probability assuming null hyposthesis, so as to compare with Type-1 error
```

In [5]:
```
p_value=1-stats.norm.cdf(abs(z_scores))
p_value
```

Out[5]:
```
0.20588503245107104
```

In [ ]:
```

```