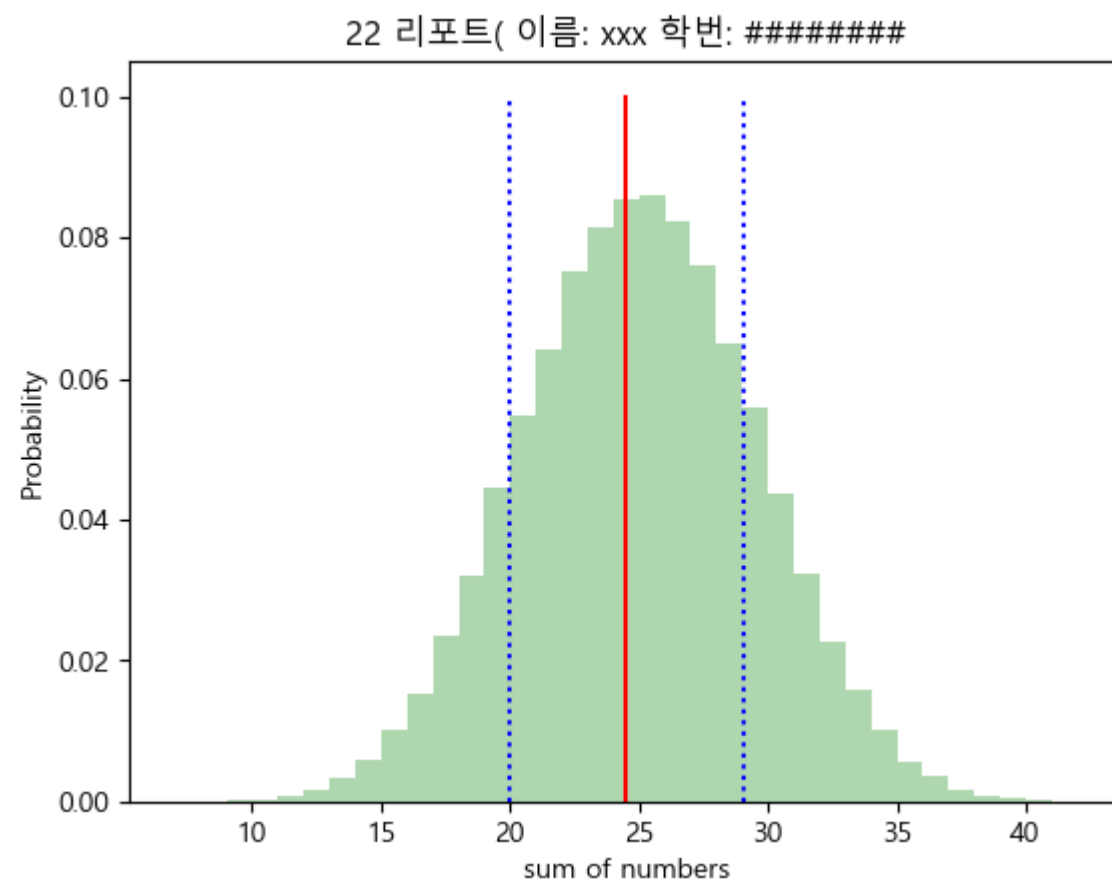


```
In [3]: import matplotlib.pyplot as plt
import numpy as np

# 한글 폰트 설정
plt.rcParams['font.family'] = 'Malgun Gothic'
plt.rcParams['axes.unicode_minus'] = False # 마이너스 기호 깨짐 방지

dices = np.random.randint(1,7,7)
print(dices)
res = []
for _ in range(100000):
    dices = np.random.randint(1,7,7)
    res.append(dices.sum())
n, bins, _ = plt.hist(res, bins=range(7,43), density=True, facecolor='g', alpha=0.3)
print(n)
print(bins)
m, sig = np.mean(res), np.std(res)
print(m, sig)
x = [m-sig, m, m+sig]
y = [0, 0.1]
plt.plot([x[0], x[0]], y, 'b:', [x[1], x[1]], y, 'r-', [x[2], x[2]], y, 'b:')
plt.title('22 리포트( 이름: xxx 학번: #####) # 본인의 정보')
plt.xlabel('sum of numbers')
plt.ylabel('Probability')
plt.show()
```

```
[4 5 5 4 3 3 4]
[0.000e+00 0.000e+00 1.300e-04 3.400e-04 7.100e-04 1.640e-03 3.200e-03
 5.910e-03 1.016e-02 1.532e-02 2.356e-02 3.211e-02 4.439e-02 5.482e-02
 6.401e-02 7.518e-02 8.138e-02 8.539e-02 8.597e-02 8.219e-02 7.605e-02
 6.504e-02 5.596e-02 4.367e-02 3.225e-02 2.259e-02 1.577e-02 1.005e-02
 5.600e-03 3.630e-03 1.700e-03 7.800e-04 3.600e-04 9.000e-05 5.000e-05]
[ 7.  8.  9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.
 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42.]
24.50875 4.51759044596785
```



In []: