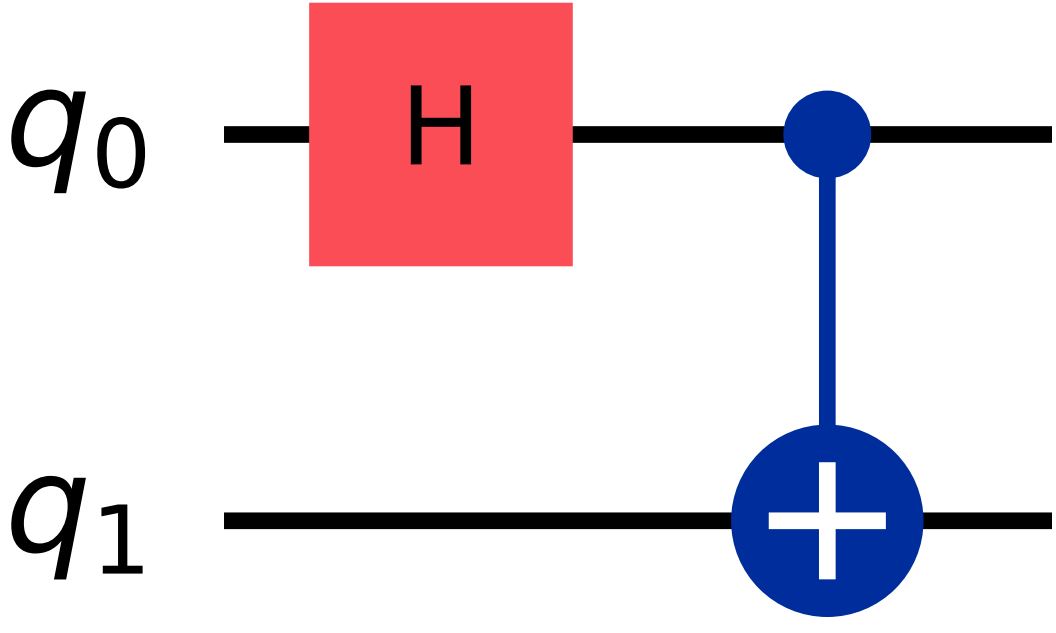
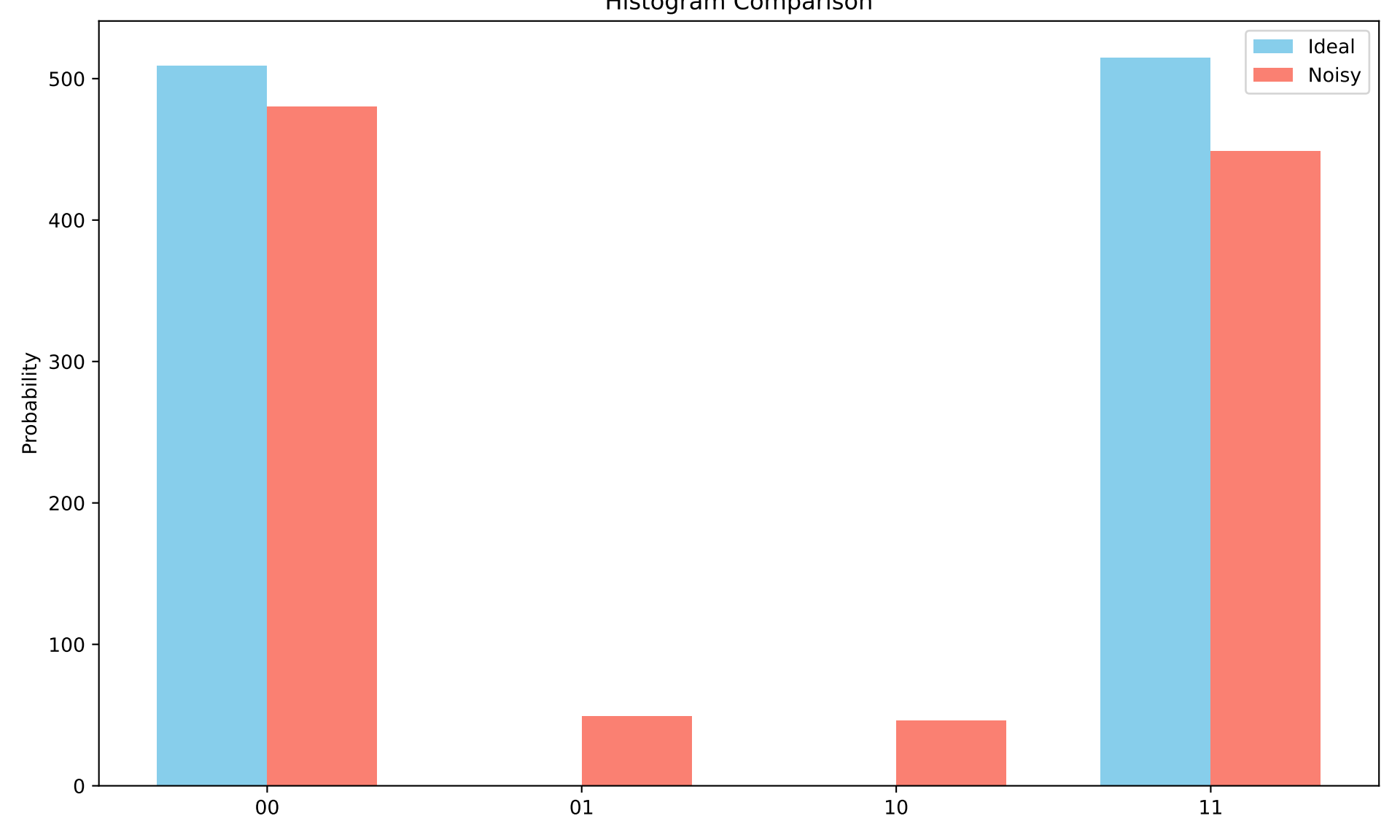

q_0
H
q_1

Noise_info

```
NoiseModel:
  Basis gates: ['cx', 'h', 'id', 'rz', 'sx']
  Instructions with noise: ['cx', 'h']
  All-qubits errors: ['h', 'cx']
```


Histogram Comparison
Ideal
Noisy
Probability
0
100
200
300
400
500
00
01
10
11

Result_info

The Measures of difference between ideal circuit and noisy circuit on the basis of measurement are-

1. Fidelity(between measurement probability distribution) is 0.906877
2. Trace Distance(probability distribution)=0.0928
3. Information gain(change in shannon entropy from ideal to noisy circuit) is0.4449

The Measures of difference between ideal circuit and noisy circuit (Density_matrix) are-

1. Fidelity(Density_Matrix) is 0.7300
2. Trace Distance(Density_matrix) is 0.2700
3. Information gain(change in von neumann entropy from ideal to noisy circuit) is 1.1982