

```
import numpy as np
from scipy import stats

marks = np.array([72, 68, 75, 70, 74, 69, 71, 73, 70, 72])
mu_0 = 70

t_stat, p_value = stats.ttest_1samp(marks, mu_0)

print(f"T-statistic: {t_stat:.3f}")
print(f"P-value: {p_value:.4f}")

alpha = 0.05
if p_value < alpha:
    print("Reject Null Hypothesis → Mean is significantly different from :")
else:
    print("Fail to Reject Null Hypothesis → No significant difference.")
```

⇒ T-statistic: 1.993
P-value: 0.0774
Fail to Reject Null Hypothesis → No significant difference.