ASSIGNMENT

NAME: OBAYEMI MARY JESUTOSIN

MATRIC NO: 17/MHS05/015

DEPARTMENT: PHYSIOLOGY

COURSE TITLE: DEMOGRAPHY & BIOSTATISTICS

COURSE CODE: STA 312

ASSIGNMENT TITLE: Hypothesis Testing

Question:

1. What do you understand by hypothesis testing?
2. Differentiate between the classical and the p-value approach for hypothesis testing.
3. What is the importance of hypothesis testing in Research?

Answers:

1. Hypothesis testing is an important concept in statistics that helps us to determine if our observations and results contain enough information i.e. it basically helps us to make wise decisions in statistics.
2. The classical approach is the first approach of hypothesis testing, which computes a test statistic from the empirical data and then compares it with the critical value. If the test statistic in this classical approach is larger than the critical value, then the null hypothesis is rejected. Otherwise, it is accepted.

This differentiates it from the p-value approach because a conclusion can be reached in this method without establishing a significance level.

1. Hypothesis testing serves as a form of assistance to administrators, clinicians and other forms of researchers so as to make wise, statistical decisions.