

# Assignment:- 1 (10.15.1.11)

CS22BTECH11009

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**Problem:** Gopi buys a fish from a shop for his aquarium. The shopkeeper takes out one fish at random from a tank containing 5 male fish and 8 female fish . What is the probability that the fish taken out is a male fish?

**Solution:** Let  $E$  be the event that the fish taken out is a male fish

Number of male fishes in the tank = 5

Total number of fishes in the tank = 13

So,

$$P(E) = \frac{\text{Number of male fishes}}{\text{Total number of fishes}} = \frac{5}{13}$$

Therefore,  $P(E) = \frac{5}{13}$