**Survival model**

**In this chapter we represent the future life time of an individual a random variable and we show how probabilities of death or survival can be calculated under this frame work.**

**We define the quantity of force of mortality and introduce some actuarial notation, and we discuse some properties of how predict ( future life) or to find the distribution of future life**

**Our objective will be:**

**1/ to define future life time random variable**

**2/ to specify survival function for future life time random variable**

**3/to define actuarial symbols for death and survival probabilities and develop relationship between them**

**4/ to define the force of mortality**