```
Indep: Pr[xny] = Pr[x]. Pr[y]
        Pr[IAY] . PF[Y|Z]
 Proruse independence 4 is then they one independenc?
Expectation
 Distribution
Pr [x=x]
 Not te continuous 60 Pr [X=2] will be zero
PDF of continuous rundom variable
   fx(1) 41 340+85
CPF
Pr[x =x] -> COF ofx
ב [(בעש- בעש)]
 = \x2-20661+6002 ton dx
   ५ स्ट्री-भ्रहायी
                                    E [x·E[x]] = E[x]·E[x]
 ECx2] - 2. ECXCEA] + ECXT
                                      Taring Orpotetion out.
         = 2 · EU-1 · EU-7
= E[X] ~2E[Z]2+E[X]2
 = 6007 - 60072
  Corariance
  Properties
  Cov (X+C,Y) = Cov (X,Y)
  (or (ax +bY, E)= a. Cov(x, E)+b. (or (Y, E)
                   Cov(ax, 3) (ov (by, 3)
 (OV (W, Z) = (OV ( I+X+XY2, I+X)
                                               N(O,I)
 = 6v (z, x+xx)
                                                      Kui squre.
                                                                 モビメ・ブラーロ
= (\alpha(\chi(i+\gamma), X) = (\alpha(\chi, x) + (\alpha(\chi, \chi)))
                                  4 E[1-E[1] (27-E[2])
                             ECXT = ECCT · ECCT
                    ELAYJ = ELAJ · ECOJ
```

